SALORA SERVICE MANUAL

VIDEO TAPE RECORDER

MODEL SALORA 810N, N / W, VPS, Y, V

Product code: 04168 / 04169 / 04167 / 04170 / 04171

SALORA 810N, N/W, VPS, Y, V SPECIFICATIONS

Format	
V	: VHS standard
N, N/W, VPS, Y, V	: VHS standard (PAL, MESECAM)
Video recording system	: Rotary, slant azimuth two-head helical scan system
Rotary heads	: 3 video heads
RF. input	
N, N/W	: System B, G VHF ch 2 - 12 UHF ch 21 - 69 Cable ch S1'- S3', S1 - S41
VPS, Y	: System B, G VHF ch 2 - 12 UHF ch 21 - 69 Cable ch S1'- S3', S1 - S20
V	: SYSTEM I VHF ch A - J UHF ch 21 - 69 Cable ch S1'- S3', S1 - S20
RF. output	
N, N/W, VPS, Y	: System G type modulation VHF ch 30 - 39 adjustable (preset ch 36)
V	: System I type modulation UHF ch 30 - 39 adjustable (preset ch 36)
Recording (line input)	
V	: PAL
N, N/W, VPS, Y	: PAL, SECAM (MESECAM Tape)
Playback (line output)	
V	: PAL
N, N/W, VPS, Y	: PAL, SECAM (MESECAM Tape)

Video	
Line input level	: 0.5 - 2.0 Vp-p/75 ohms, unbalanced
Line output level	: 1.0 Vp-p/75 ohms, unbalanced
S/N ratio	: More than 45 dB
Horizontal resolution	: More than 250 lines
Audio	
Line input level	: –6 dBs/50 K ohms, unbalanced
Line output level	: –6 dBs/1 K ohms, unbalanced
S/N ratio	: More than 40 dB
Frequency response	: 70-10,000 Hz
Recording/playback time	: 240 min. with E-240 cassette
Tape speed	: 23.39 mm/sec
Quick finder	: 5 times normal speed
FF, REW time	: Approx. 5 min. with E-180 cassette
Timer	
Programme	: 8 programmes / 1 year and QUICK TIMER
Clock reference	: Quartz crystal
Display	: TV screen & FL (Tape counter, Timer etc.)
Power requirements	: 220 - 230 V AC, 50 Hz
Power consumption	: 37 W
Operating temperature	: 5°C - 40°C
Dimensions	: 425 (W) x 82 (H) x 326 (D) mm
Weight	: 5.0 kg

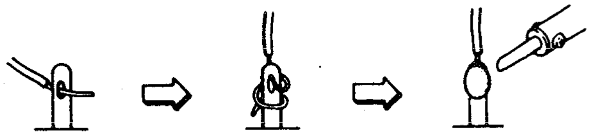
0 dBs = 0.775 V

6611 76 20

★SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ (✻) symbol are critical for safety. Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
   These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing micro switch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.
The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resister of 1500 ohms paralleled with a 0.15 µF capacitor, under the unit's normal working conditions.
The leakage-current should be less than 0.5 mA rms AC.
The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 Mohms.

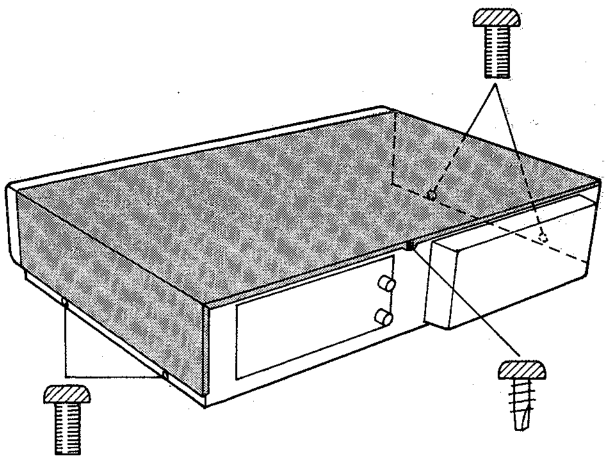
MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.
Please leave them at an appropriate depot. All other household batteries can be thrown out with the household waste.

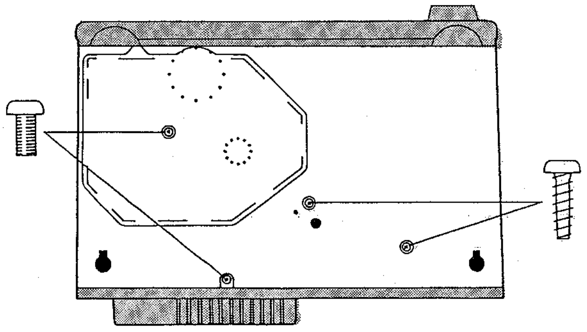
I. DISASSEMBLY

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the illustrations.
Reassemble in reverse order.
When reattaching the FRONT PANEL, hold the cassette loading slot door in the upright (open) position.

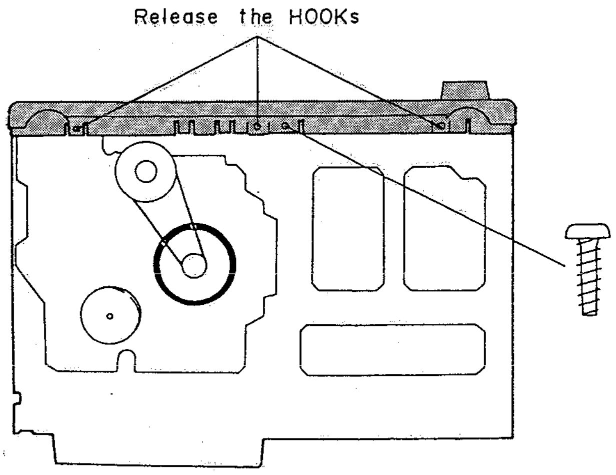
1. Removal of UPPER COVER

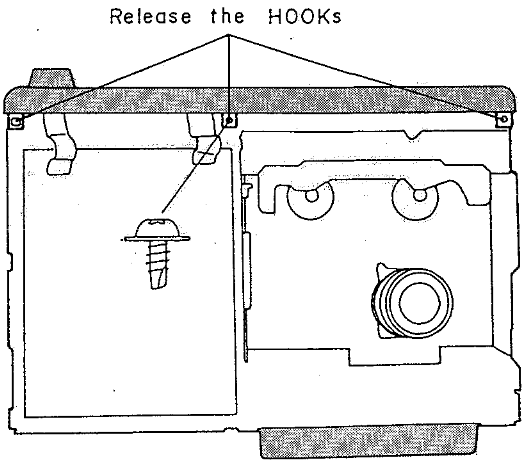


2. Removal of BOTTOM COVER

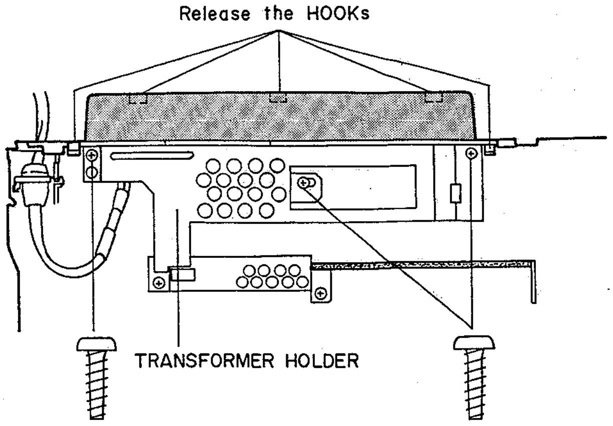


3. Removal of FRONT PANEL


Release the HOOKs


Release the HOOKs

4. Removal of TRANS COVER


Release the HOOKs
TRANSFORMER HOLDER

II. PRINCIPAL PARTS LOCATION

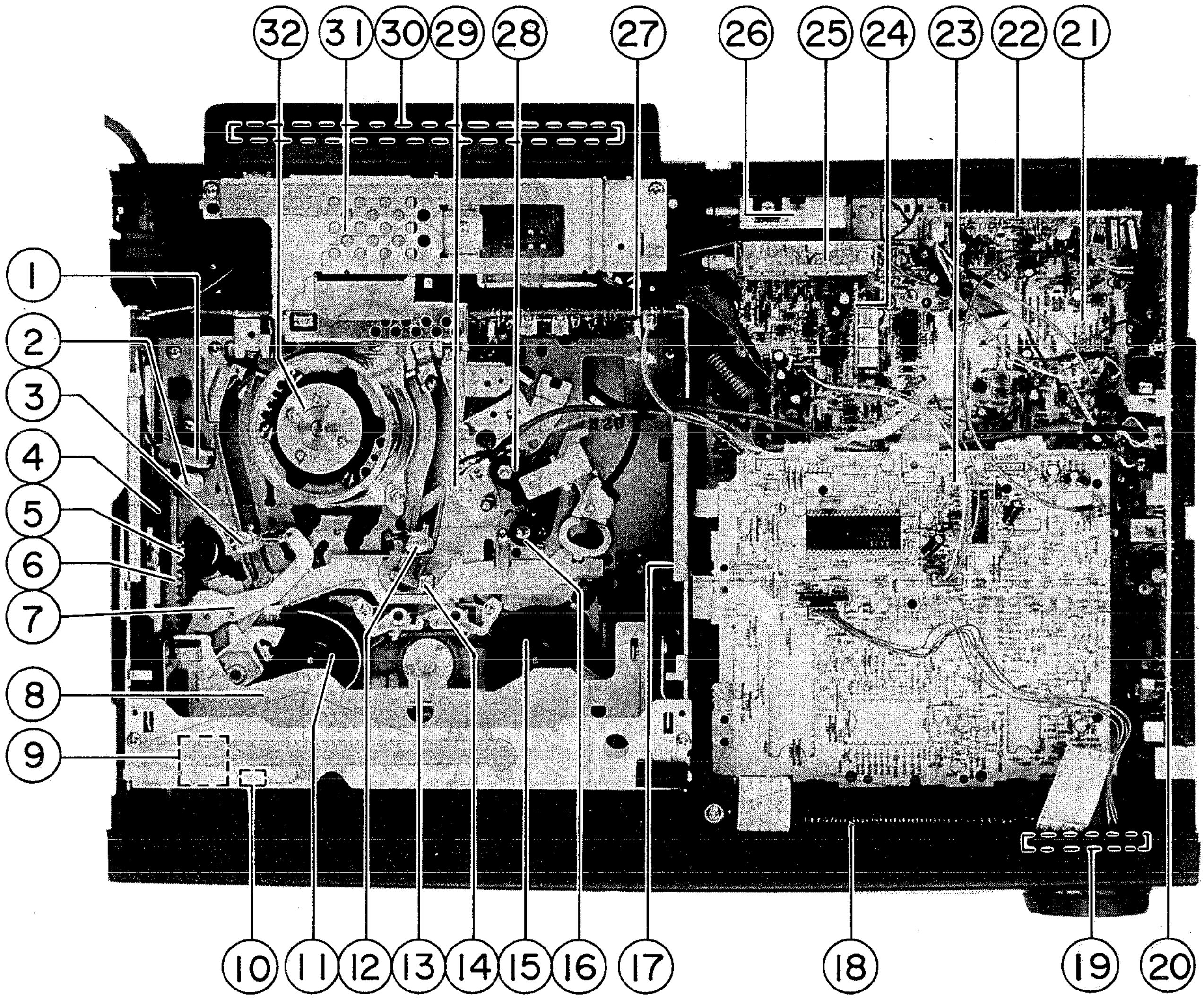


Fig. 2-1 Top view

1. FULL TRACK ERASE HEAD
2. SUPPLY TAPE GUIDE
3. SUPPLY LOADING LEADER
4. SENSOR (S) PCB (END SENSOR)
5. FRONT LOADING GEAR
6. FRONT LOADING SLIDER
7. TENSION ARM
8. CASSETTE LOAD BLK
9. LOADING MOTOR
10. REC SAFETY SWITCH
11. SUPPLY REEL TABLE
12. TAKE UP LOADING LEADER
13. IDLER PART
14. SENSOR LED
15. TAKE UP REEL TABLE
16. CAPSTAN MOTOR
17. SENSOR (T) (START SENSOR)
18. OPERATION (1) PCB
19. JOG SHUTTLE PCB
20. MAIN (B) PCB
21. MAIN (A) PCB
22. ASO PCB
23. VPS PCB
24. VIF UNIT
25. TUNER UNIT
26. RF CONVERTOR UNIT
27. PRE AMP PCB
28. PINCH ROLLER
29. AUDIO / CONTROL / S. ERASE HEAD
30. POWER SUPPLY PCB
31. POWER TRANSFORMER
32. VIDEO HEAD DRUM BLOCK

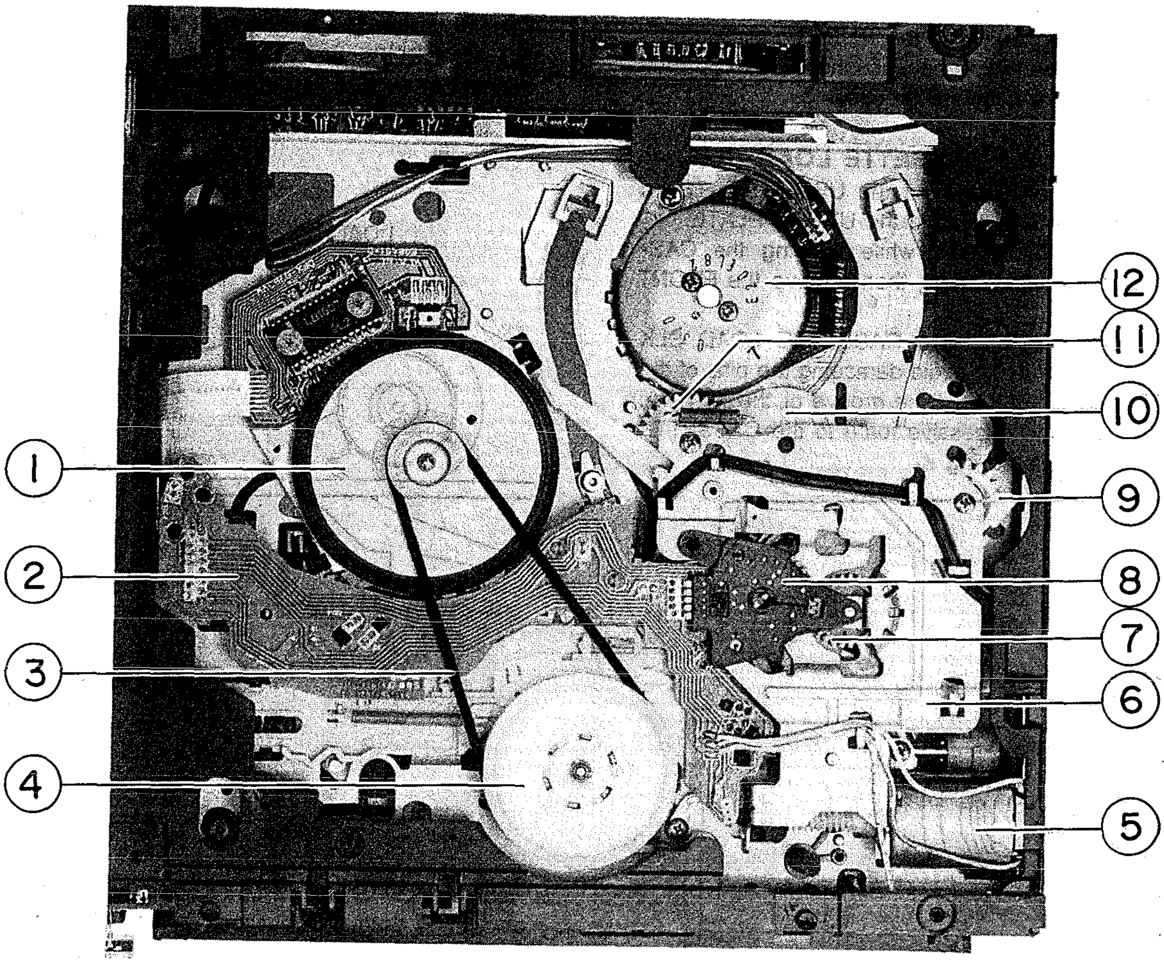


Fig. 2-2 Bottom view

1. CAPSTAN MOTOR BLOCK	7. CAM SLIDER GEAR
2. SENSOR PCB	8. MODE SELECT SWITCH
3. CAPSTAN BELT	9. FRONT LOADING GEAR
4. CLUTCH DISK PART	10. TOGGLE (S) GEAR BLOCK
5. LOADING MOTOR	11. TOGGLE (T) GEAR BLOCK
6. LOADING DRIVE BLOCK	12. DRUM MOTOR BLOCK

III. MAIN COMPONENTS REPLACEMENT

3-1. REMOVAL OF THE EJECTOR BLOCK

∗ Set the loading mechanism to the "EJECT" position by pressing the EJECT button. Then disconnect the AC power plug from the AC socket before proceeding.

3-1-1. Removal of the CASSETTE LOAD BLK

1) Remove the two Ⓐ screws on the UPPER PLATE as shown in Fig. 3-1 then remove the UPPER PLATE.
2) Lift up the FRONT GUIDE while pushing the CASSETTE LOAD BLK backward, then remove the FRONT GUIDE.
3) Lift up the front side of the CASSETTE LOAD BLK gently then remove it. To avoid damaging the pins of the CASSETTE LOAD BLK and the groove of the MECHA. FRAME, do not add excessive force to the CASSETTE LOAD BLK when removing it.

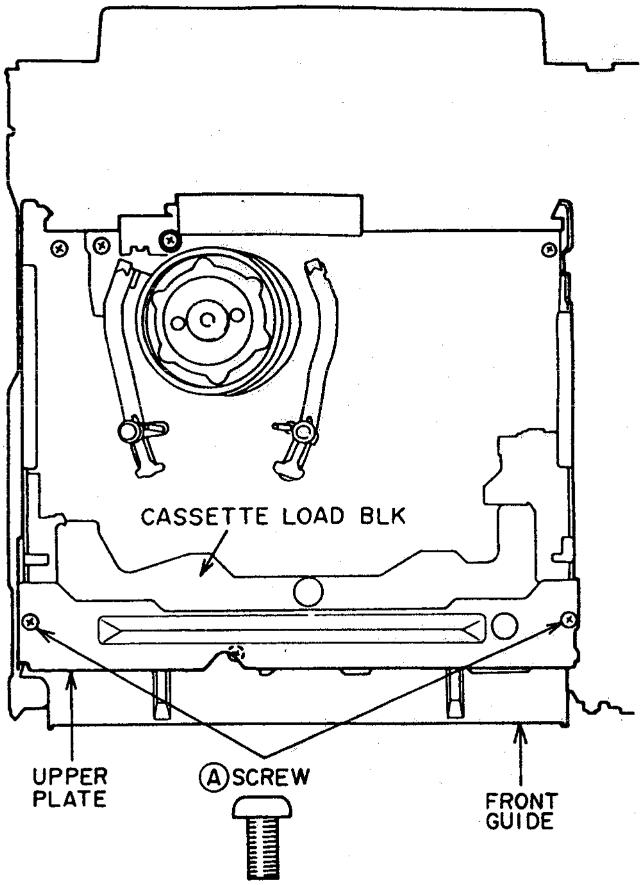


Fig. 3-1

3-1-2. Removal of the LOADING ARM BLK

1) Release the stopper on the right sid end of the LOADING ARM BLK's shaft (Refer Fig. 3-2) by pressing the stopper tab with a flat head (—) screwdriver. Then remove the shaft's right end from the bracket.

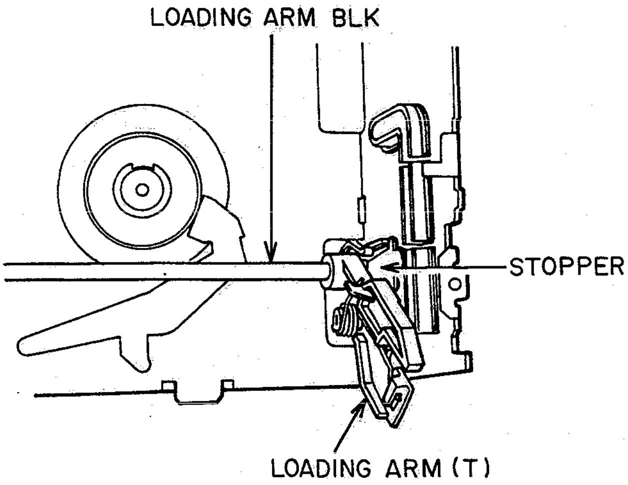


Fig. 3-2

2) Hold the LOADING ARM (T) and turn it 30 degrees clockwise, then pull out the shaft's left end from the bracket. To avoid damaging the JOINT GEAR and EJECT GEAR, take special care when removing. (Refer Fig. 3-3)

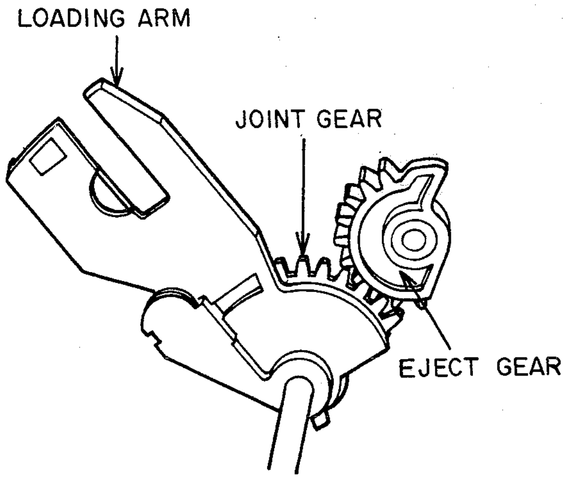


Fig. 3-3

3-2.REMOVAL OF THE SENSOR PC BOARD

* Before proceeding with removal of the SENSOR PCB the loading mechanism must be set to the "unloaded" position (the position where the CAM SLIDER GEAR's groove mark is visible through the hole of the MODE SELECT SW.) as shown in Fig. 3-4.

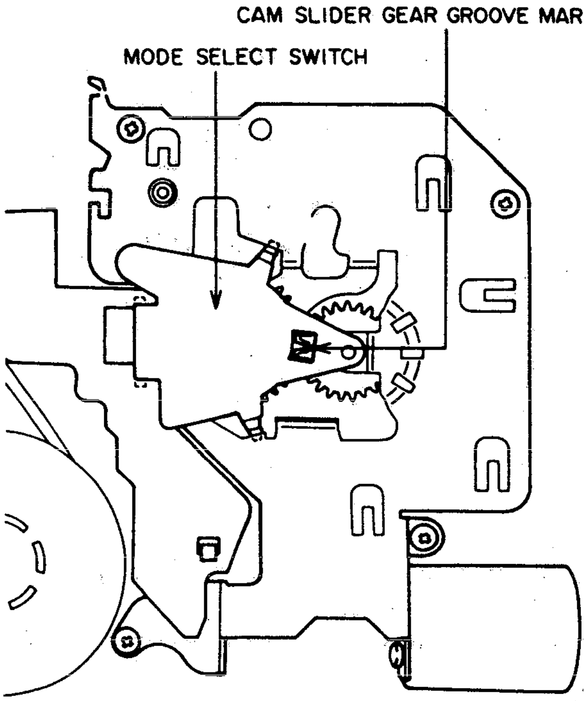


Fig. 3-4

To set the loading mechanism to the "unloaded" position, proceed with one of the following 1) or 2) procedures.

1) Insert a video cassette tape which you no longer need. Once the tape has been loaded or has entered the "play" mode press the POWER button to turn the power off. Disconnect the AC power plug from the AC socket after the cassette tape has been unloaded.
2) Remove the UPPER PLATE, FRONT GUIDE and CASSETTE LOAD BLK. (Refer to 3-1-1. Removal of the CASSETTE LOAD BLK.)
   Plug in the AC power cord. The LOADING ARM BLK will move backward (the cassette load BLK will be in the down position) and forward (the cassette load BLK will be in the eject position) continuously.
   With your fingers, cover and hold both SENSOR (S) and SENSOR (T) at the same time when the LOADING ARM BLK is in the backward position. The unit will enter the "play" mode without the cassette tape. Then release your fingers from the both sensors. Wait more than 10 seconds. (After the PINCH ROLLER is disengaged from the CAPSTAN and the SUPPLY REEL stops its rotation, the mechanism is set to "stand-by".)
   Press the RESET button on the OPERATION (1) PCB. The mechanism will be set to the "tape unloaded position" thereafter.
   Disconnect the AC power plug from the AC power soket.

3-2-1. Removal of the MODE SELECT SWITCH

1) Release the two Ⓐ stoppers as shown in Fig. 3-5.

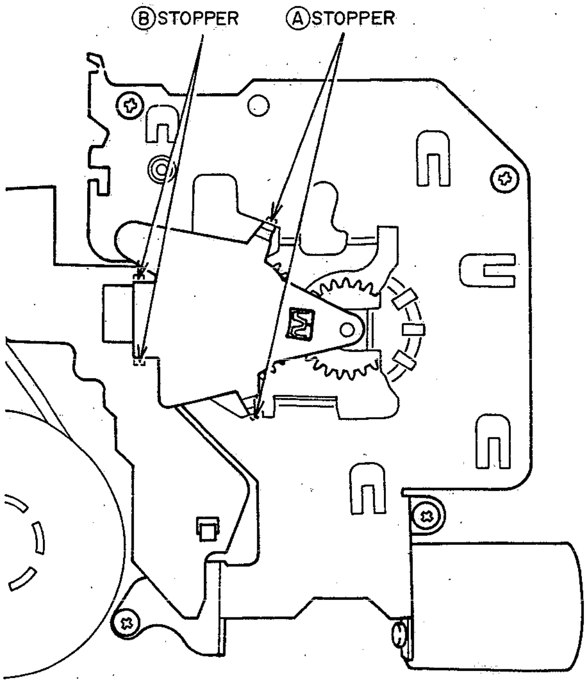


Fig. 3-5

2) Release the two Ⓑ stoppers carefully while pulling up the MODE SELECT SWITCH. Then remove the MODE SELECT SWITCH. (Do not damage the pins of the MODE SELECT SWITCH or the connector P1 on the SENSOR PCB).

3-2-2. Removal of the SENSOR PC Board

1) Disconnect the connector P303 on the MAIN (A) PCB.
2) Remove the capstan belt.
3) Release the Ⓐ, Ⓑ and Ⓒ stoppers as shown in Fig. 3-6. Then remove the SENSOR PCB.

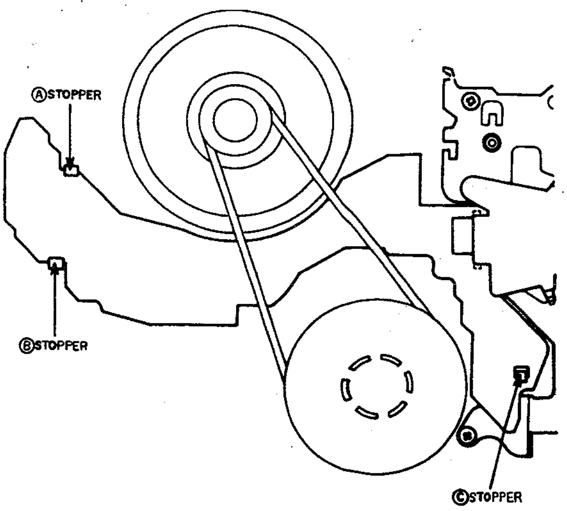


Fig. 3-6

3-3.REMOVAL OF THE LOADING DRIVE BLK

Set the loading mechanism at the “unloaded” position as well as 3-2 (REMOVAL OF THE SENSOR PC BOARD). However this time, to avoid damaging the tape and mechanical parts, refer to 3-2, ∗ (2) only.

1) Remove the MODE SELECT SWITCH in the same manner as 3-2-1 (Removal of the MODE SELECT SWITCH).
2) Unhook the five wires from each tab. Two wires from the SENSOR(S), two wires from the LOADING MOTOR and one wire from the REC SAFETY SWITCH.
3) Remove the Ⓐ, Ⓑ, Ⓒ and Ⓓ screws, then remove the LOADING DRIVE BLK as shown in Fig. 3-7.

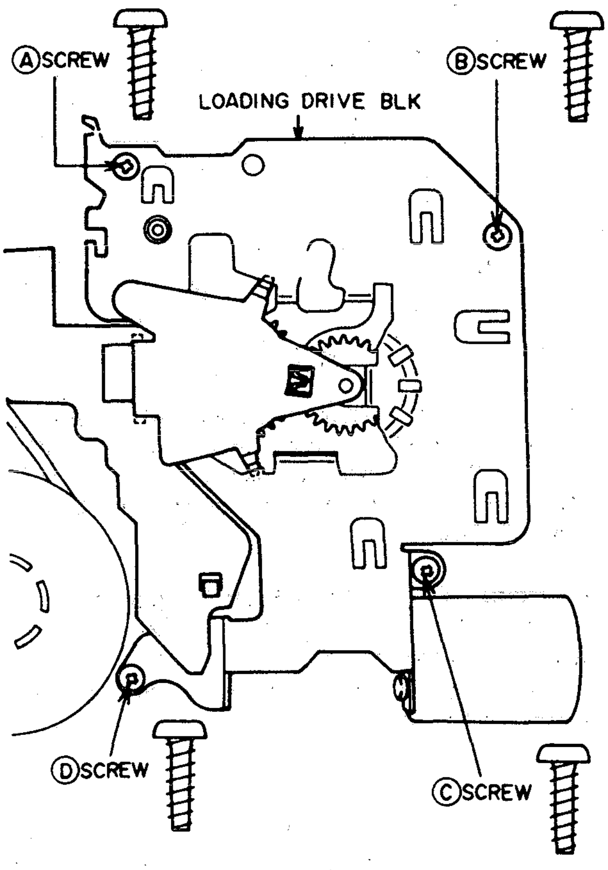

ⒶSCREW
ⒷSCREW
LOADING DRIVE BLK
ⒹSCREW
ⒸSCREW

Fig. 3-7

3-4.REASSEMBLY OF THE LOADING MECHANISM BLK

3-4-1. Position of the TOGGLE GEARs (T) and (S)

1) Set the TOGGLE GEAR (T) and TOGGLE GEAR (S) to the unloaded position with your fingers. Align the Ⓐ mark on the TOGGLE GEAR (S) with the Ⓐ hole of the TOGGLE GEAR (T) as shown in Fig. 8.

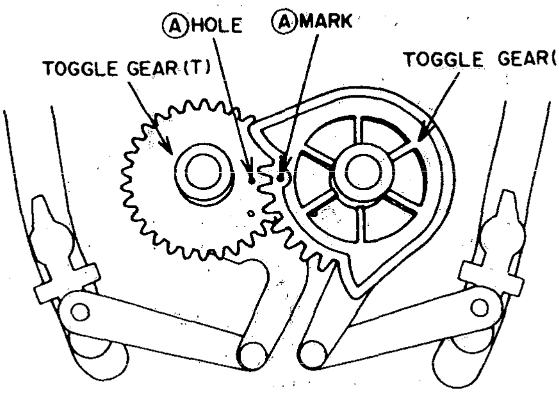

ⒶHOLE
ⒶMARK
TOGGLE GEAR(T)
TOGGLE GEAR(S)

Fig. 3-8

3-4-2. Installation of the CAM SLIDER GEAR & FRONT LOADING GEAR

1) Attach the WORM WHEEL GEAR as shown in Fig. 3-9.

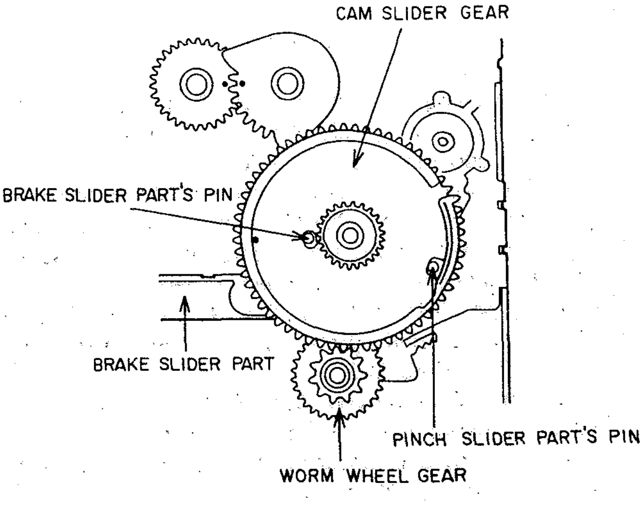

CAM SLIDER GEAR
BRAKE SLIDER PART'S PIN
BRAKE SLIDER PART
PINCH SLIDER PART'S PIN
WORM WHEEL GEAR

Fig. 3-9

2) Set the CAM SLIDER GEAR. At this time, adjust the position of the BRAKE SLIDER PART and PINCH SLIDER PART so that both pins appear through the holes on the CAM SLIDER GEAR as shown in Fig.3-9.

3) Attach the FRONT LOADING GEAR as shown in Fig. 3-10. At this time, align the Ⓑ mark on the FRONT LOADING GEAR with the Ⓑ hole of the FRONT LOADING SLIDER as shown in Fig. 3-11.

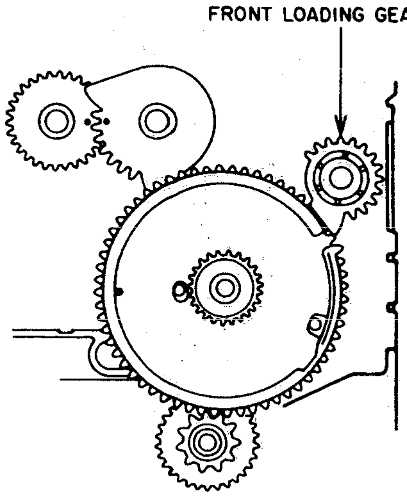

FRONT LOADING GEAR

Fig. 3-10

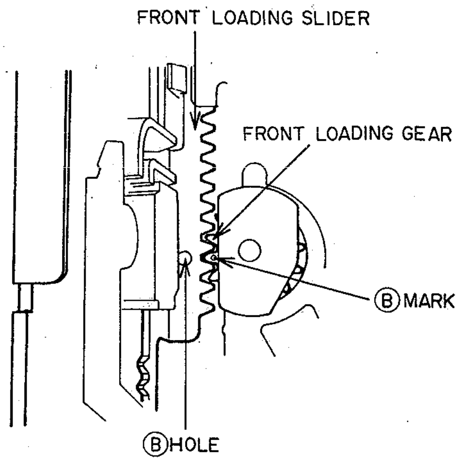

FRONT LOADING SLIDER
FRONT LOADING GEAR
ⒷMARK
ⒷHOLE

Fig. 3-11

3-4-3. Confirmation of the position of the EJECT GEAR

1) Confirm that the EJECT GEAR is in the correct position as shown in Fig. 3-12.

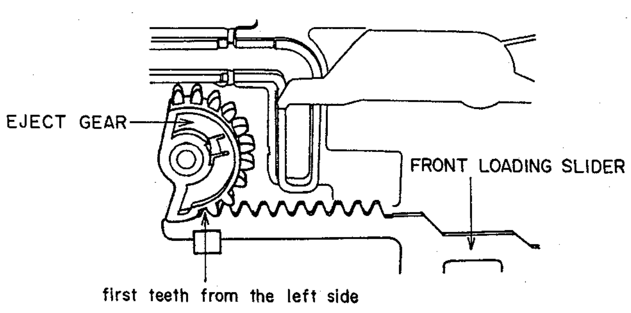

EJECT GEAR
FRONT LOADING SLIDER
first teeth from the left side

Fig. 3-12

2) Install the LOADING DRIVE BLK as shown in Fig. 3-13.

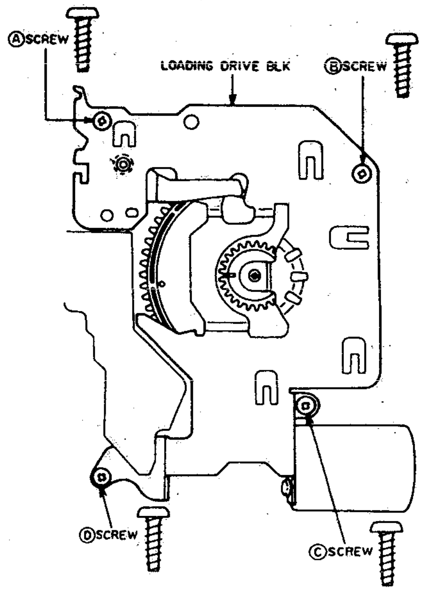

ⒶSCREW
LOADING DRIVE BLK
ⒷSCREW
ⒹSCREW
ⒸSCREW

Fig. 3-13

3-4-4. Installation of the MODE SELECT SWITCH

1) Set the MODE SELECT SWITCH's gear so that the Ⓒ mark is in the center of the Ⓒ hole as shown in Fig. 3-14.

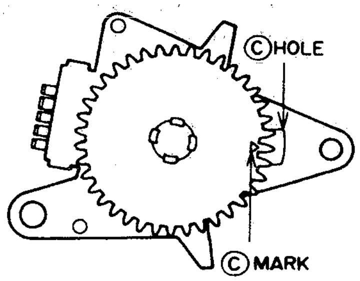


Fig. 3-14

2) Attach the MODE SELECT SWITCH to the LOADING DRIVE BLK. At this time, align the hollow of the gear's tooth (reverse side of the Ⓒ mark) with the Ⓒ groove of the CAM SLIDER GEAR as shown in Fig. 3-15.

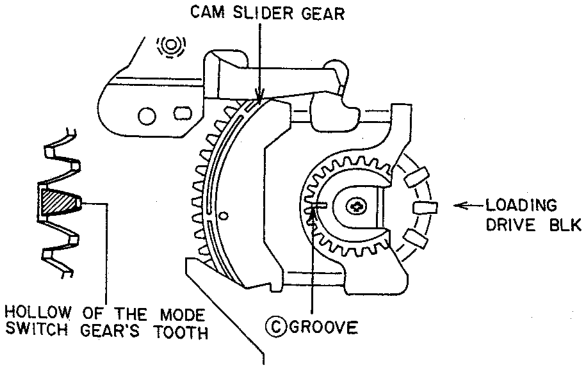

CAM SLIDER GEAR
LOADING DRIVE BLK
HOLLOW OF THE MODE SWITCH GEAR'S TOOTH
ⒸGROOVE

Fig. 3-15

3-4-5. Installation of the LOADING ARM BLK

1) While covering the SENSOR (S) with your fingers, connect the AC power plug to the AC socket. The FRONT LOADING SLIDER will reach the "EJECT" position. Then disconnect the AC power plug from the AC socket before you release your fingers from the SENSOR (S).
2) Install the LOADING ARM BLK in the reverse order of 3-1-2 (Removal of the LOADING ARM BLK). Set the position between both the EJECT GEAR and the JOINT GEAR as shown in Fig. 3-16.

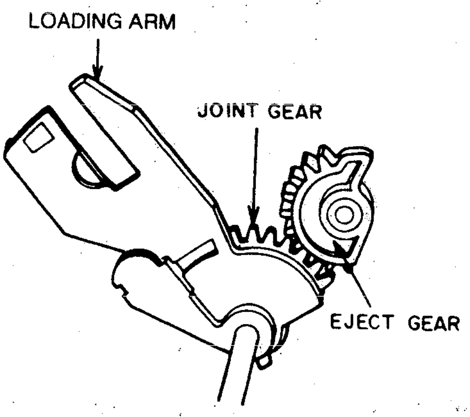


Fig. 3-16

3-4-6. Installation of the CASSETTE LOAD BLK, FRONT GUIDE and UPPER PLATE

1) Attach the CASSETTE LOAD BLK, FRONT GUIDE and UPPER PLATE in the reverse order of 3-1-1 (Removal of the CASSETTE LOAD BLK).
2) Insert a video cassette tape and confirm that the loading mechanism will operate properly.

3-5.REPLACEMENT OF THE PINCH HOLDER PART

1) Remove the grip ring and release the stopper of the PINCH ARM and remove the PINCH ARM BLK as shown in Fig 3-17.

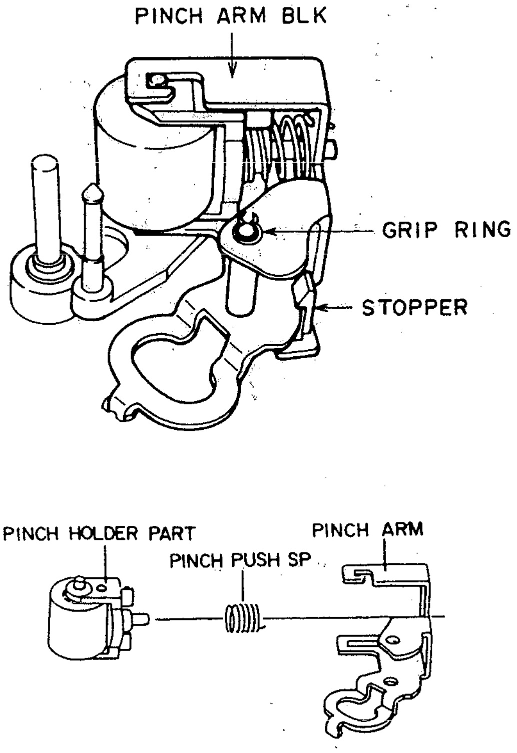


Fig. 3-17

2) Turn the PINCH HOLDER PART 30 degrees clockwise while pushing it backward and remove the PINCH HOLDER PART from the PINCH ARM.
3) Reassemble the PINCH ROLLER ARM BLK in the reverse order of 1) to 2).

3-6. REPLACEMENT OF THE IDLER PART AND REVIEW BRAKE PART

1) Remove the REWIND BRAKE PART, CASSETTE LOAD BLK & ARM LOADING BLK. (Refer to 3-1, REMOVAL OF THE EJECTOR BLK.)
2) Release the stopper of the IDLER PART as shown in Fig. 3-18, then remove it.

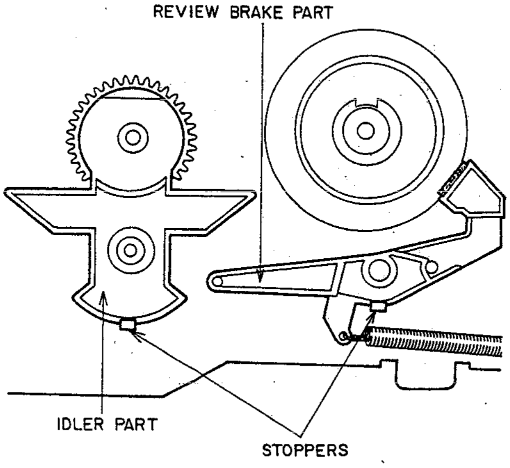


Fig. 3-18

3) Take off the review brake part spring, then release the stopper of the REVIEW BRAKE PART and remove it.
4) Reassemble these parts in the reverse order of 1) to 3).

3-7. REPLACEMENT OF THE UPPER DRUM

3-7-1. Removal of the UPPER DRUM

1) Unsolder the six relay leads and remove the two upper drum fixing screws as shown in Fig. 3-19.
2) Gently lift and remove the UPPER DRUM.

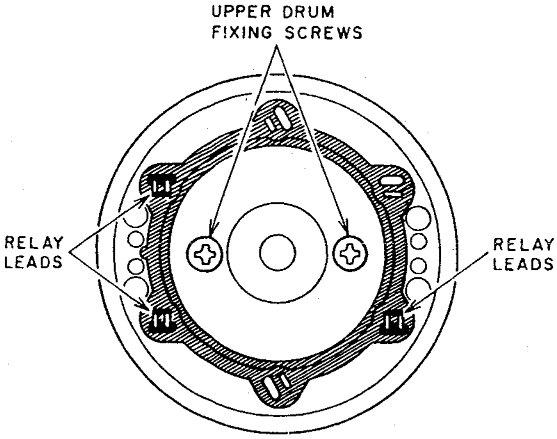


Fig. 3-19

3-7-2. Installation of the UPPER DRUM

1) Attach the UPPER DRUM to the LOWER DRUM ROTOR so that the upper drum convex Ⓐ and lower drum rotor's white mark are in the same direction as shown in Fig. 3-20.

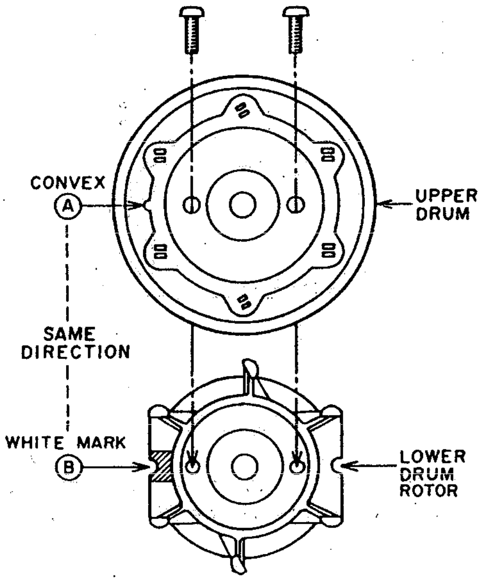


Fig. 3-20

NOTE: Because height precision is required for proper performance, and because head tips are fragile, the following points should be noted when replacing the UPPER DRUM BLOCK.

a) Do not loosen the set screw on the collar preload.
b) Before fixing, use alcohol to clean both surfaces where the upper drum and the rotary transformer meet.
c) If the UPPER DRUM can not be inserted on to the shaft easily during installation, clean the hole in the UPPER DRUM with alcohol and put a little oil on the shaft.
d) Make sure that the upper drum fixing screw holes on the rotary transformer part and the upper drum fixing screw penetration holes match exactly before inserting the fixing screws.
e) Tighten the two upper drum fixing screws alternately and gradually.

3-7-3. After replacement

After replacement, the following adjustments are necessary for the proper performance.

1) Control head Phase adjustment (IV. MECHANICAL ADJUSTMENT 4-3-3.)
2) PB switching point adjustment. (V. ELECTRICAL ADJUSTMENT Step 1)
3) Video head REC current adjustment. (V. ELECTRICAL ADJUSTMENT Step 6)

4) ENV. DET (ASO) adjustment. (V. ELECTRICAL ADJUSTMENT Step 10)

3-8. DRUM MOTOR PC BOARD REPLACEMENT

1) Remove the two Ⓐ screws on the ROTARY PLATE and remove the ROTARY PLATE.
   Then disconnect the connector on the DRUM MOTOR PCB as shown.

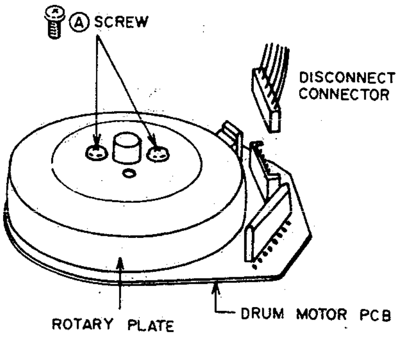

Ⓐ SCREW
DISCONNECT CONNECTOR
ROTARY PLATE
DRUM MOTOR PCB

Fig. 3-21

2) Remove the three Ⓑ screws which retain the DRUM MOTOR PCB and replace the DRUM MOTOR PCB.

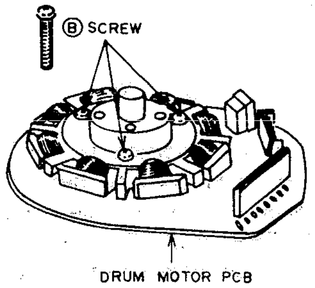

Ⓑ SCREW
DRUM MOTOR PCB

Fig. 3-22

3) Attach the ROTARY PLATE to the collar preload so that the rotary plate Ⓒ hole and collar preload Ⓓ hole are in the same direction.

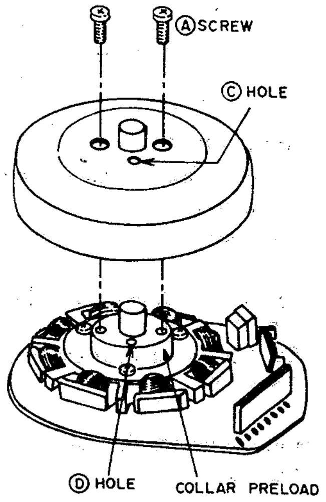

ⒶSCREW
Ⓒ HOLE
Ⓓ HOLE
COLLAR PRELOAD

Fig. 3-23

3-9. REMOVAL OF THE MECHANISM BLOCK

3-9-1. Removal of the PRE AMP PC Board

1) Remove the two Ⓐ screws then pull up the PRE AMP PCB as shown in Fig. 3-24.

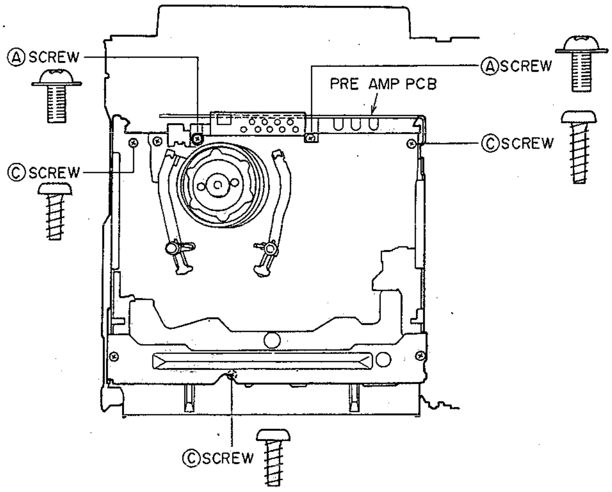

Ⓐ SCREW
Ⓒ SCREW
PRE AMP PCB
ⒶSCREW
ⒸSCREW
ⒸSCREW

Fig. 3-24

3-9-2. Removal of the MECHANISM BLK (MECHA. FRAME)

1) Disconnect the connectors P301, P302, P303, on the MAIN (A) PCB and P1 on the A/C HEAD PCB.
2) Remove the three Ⓒ screws from the MECHA. FRAME as shown in Fig. 3-24.
3) Hold the rear side of the MECHA. FRAME then remove by pulling up backward.
4) Reassemble in the reverse order for installation.

IV. MECHANICAL ADJUSTMENT

4-1.BACK TENSION ADJUSTMENT

1) Play back a recorded tape which is no longer needed.
2) Confirm that the Ⓐ groove on the TENSION ARM aligns with right end of the Ⓐ mark on the MECHA. CHASSIS as shown in Fig.4-1.
3) If the result is not satisfactory, eject the tape and adjust the TENSION ADJUST repeatedly until the result is satisfactory.

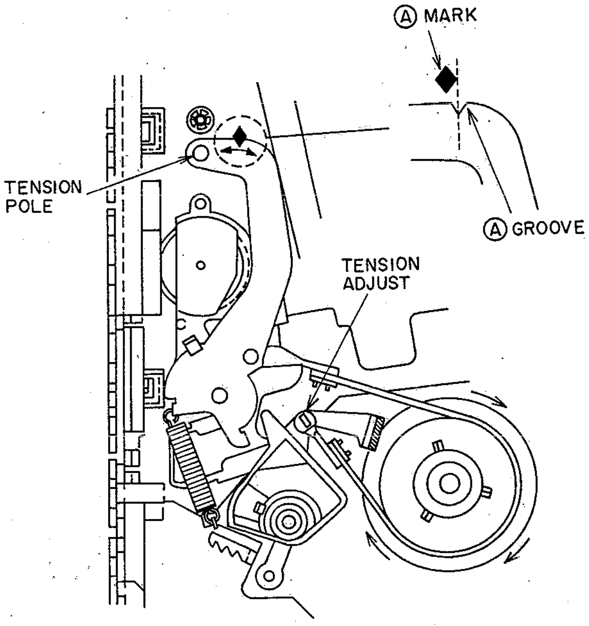


Fig. 4-1

4-2.TAPE TRANSPORT ADJUSTMENTS

NOTE: The following adjustments are required only when an irregularity is found since these adjustment are performed precisely at the factory.

4-2-1. Tape curl adjustment at the TAKE-UP TAPE GUIDE

1) Play back a recorded tape which is no longer needed.
2) Turn the Ⓐ screw on the A/C HEAD BLK until the edge of the tape barely touches the lower part of TAKE-UP TAPE GUIDE without any curl or wrinkle.
3) Once the Ⓐ screw is adjusted, A/C HEAD height and azimuth adjustment is required. (Refer to 4-3. A/C HEAD POSITION ADJUSTMENT.)

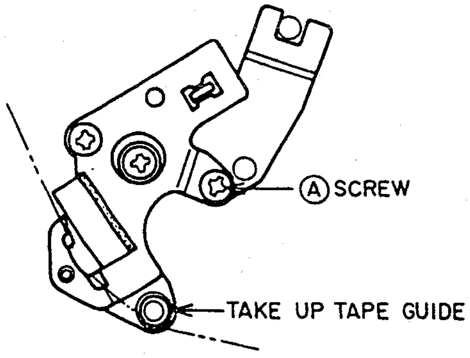


Fig. 4-2

(TAKE-UP TAPE GUIDE)

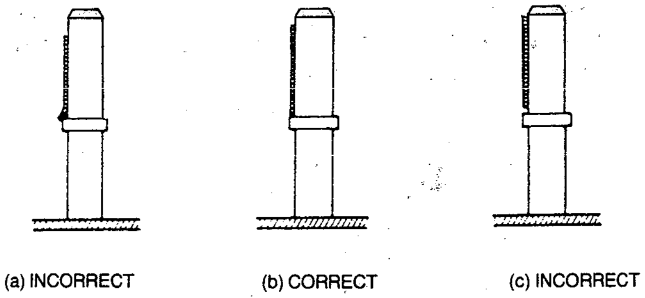


Fig. 4-3

4-2-2. Confirmation of tape curl at the SUPPLY TAPE GUIDE

Confirm that the edge of the tape barely touches the lower part of the SUPPLY TAPE GUIDE without any curl or wrinkle as shown in Fig.4-4.

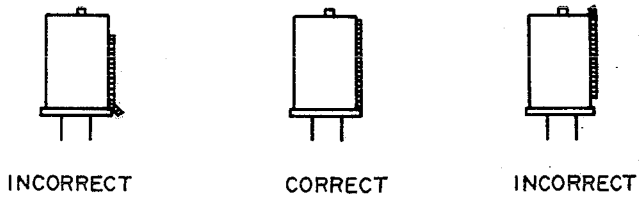


Fig. 4-4

4-2-3. REVIEW ARM height adjustment

1) Play back the beginning part of an E-240 (T-160) tape and set the unit in the REVIEW mode by pressing the REW button.
(Remove the tape protection cover to make the adjustment easy.)

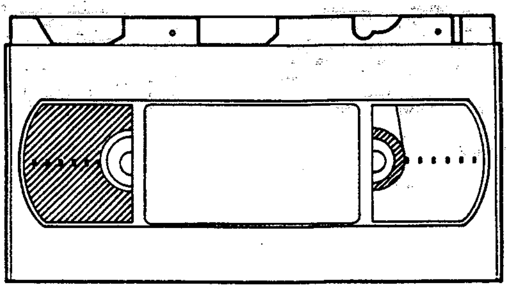


Fig. 4-5

2) Turn the REVIEW ARM height Ⓐ nut so that the edge of the tape barely touches the lower part of the TAKE-UP TAPE GUIDE without any curl or wrinkle between the TAKE-UP TAPE GUIDE and the CAPSTAN SHAFT as shown in Fig.4-6 to Fig.4-8.

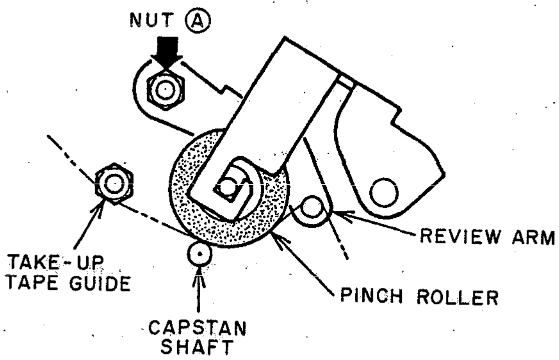
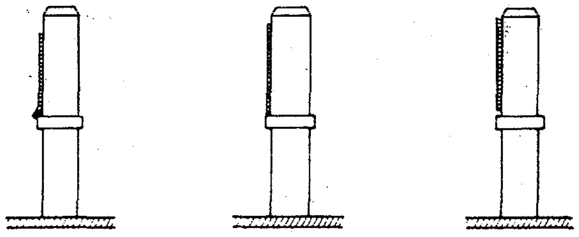


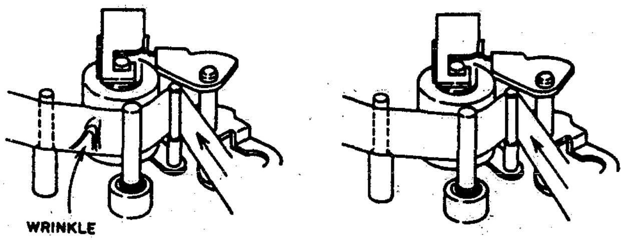
Fig. 4-6

(TAKE-UP TAPE GUIDE)



(a) INCORRECT (b) CORRECT (c) INCORRECT

Fig. 4-7

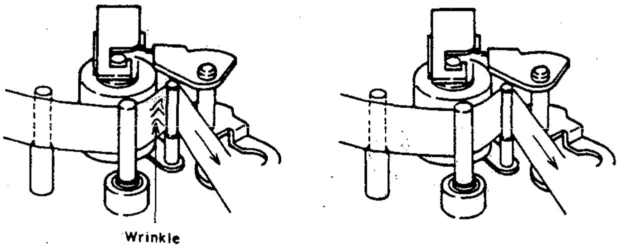


INCORRECT CORRECT

Fig. 4-8

3) Play back the beginning part of an E-240 (T-160) tape and this time set the unit in the QUE mode by pressing the F.FWD button.

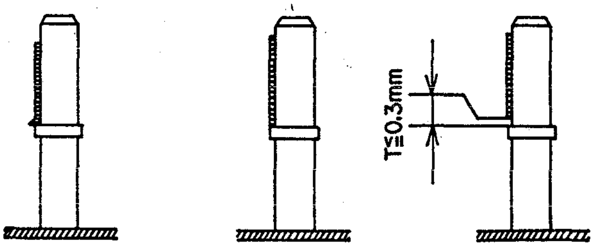
4) Confirm there is no curl or wrinkle at REVIEW ARM's guide.
If curl or wrinkle of the tape has occurred, slightly turn the Ⓐ nut (Shown in Fig.4-6) until it disappears.



INCORRECT CORRECT

Fig. 4-9

5) Set the unit in REVIEW mode again. Then confirm that there is no curl or wrinkle at the TAKE-UP TAPE GUIDE. (A small gap may appear after this adjustment, but this is allowable)



(a) INCORRECT (b) CORRECT (c) CORRECT

Fig. 4-10

NOTE:
1. If results are not satisfactory, repeat steps 2) to 5).
2. Always play an undamaged tape to obtain satisfactory adjustment.
3. Because an E-240 (T-160) tape can easily be damaged due of its thinness, a pre-adjustment with an E-180 (T-120) tape is recommended.

4-2-4. LOADING LEADER height adjustments

1) Slightly loosen the set screw at the lower part of the LOADING LEADERs (L), (R) so that the LOADING LEADER can be adjusted with reasonable tightness. (Refer Fig.4-11.)

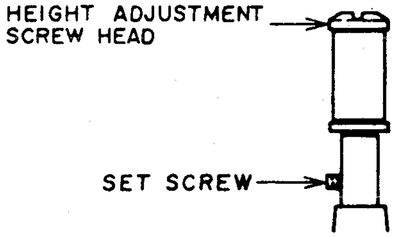

HEIGHT ADJUSTMENT SCREW HEAD
SET SCREW

Fig. 4-11

2) Play back the reference tape TF-530RFS (AT-751775).
3) Connect an oscilloscope's CH-1 to the TR510 emitter (ENVE) on the MAIN (A) PCB and CH-2 to the TP1 (VSWP) on the PRE AMP PCB for triggering.
4) Turn the LOADING LEADER heads with a flat head (—) screwdriver to obtain flat RF envelope as ideal envelope as shown in Fig.4-12.
5) After adjustment is completed, tighten the loading leader set screws.

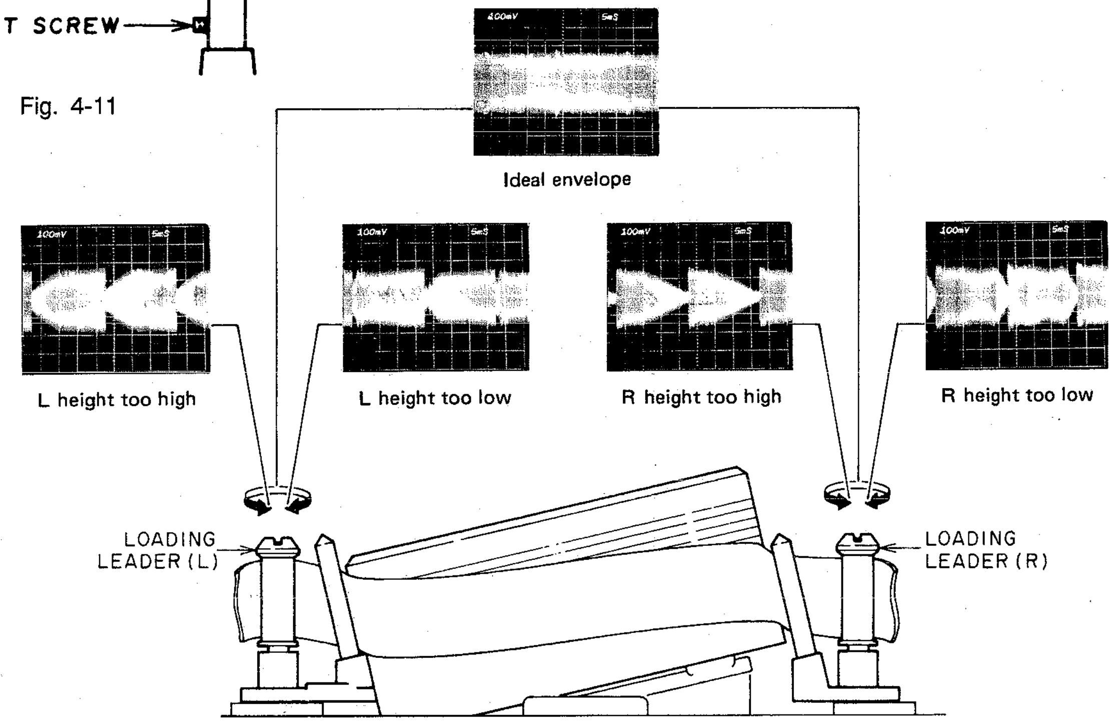

Ideal envelope
L height too high
L height too low
R height too high
R height too low
LOADING LEADER (L)
LOADING LEADER (R)

Fig. 4-12

4-3. A/C HEAD POSITION ADJUSTMENT

4-3-1. Azimuth adjustment

1) Connect an AC voltmeter or an oscilloscope to the AUDIO OUT terminal on the rear panel.
2) Play back the reference tape TF-530RFS (AT-751775).
3) Adjust the Ⓑ screw to obtain the maximum audio output.

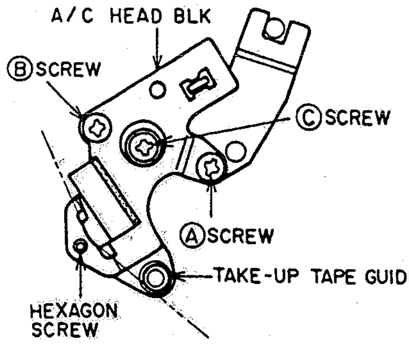

A/C HEAD BLK
ⒷSCREW
ⒸSCREW
ⒶSCREW
TAKE-UP TAPE GUIDE
HEXAGON SCREW

Fig.4-13

4-3-2. Height adjustment

1) Play back the test tape TF-526HH (AT-751788).
2) Connect an oscilloscope's CH-1 to the AUDIO OUT on the rear panel and CH-2 to the TP301 (CTL OUT) on the MAIN (A) PCB.
3) Turn the hexagon screw to obtain 1/2 of the output level of either CH-1 or CH-2 whichever has an output signal as shown in Fig.4-14.
   Then set both of the oscilloscope's channels to 100mV/div and finely adjust the hexagon screw until both signals of CH-1 and CH-2 are nearly the same level.
4) Slightly turn the Ⓐ screw until the tape edge barely touches the lower part of the TAKE-UP TAPE GUIDE without any curl or wrinkle as shown in Fig.4-3.
5) Adjust the head azimuth again. (Turning the hexagon screw or Ⓐ screw will cause head azimuth mis-alignment. Refer to 4-3-1. Azimuth adjustment.)
6) Confirm that both signals of CH-1 and CH-2 are nearly the same level (Confirm that neither of the CH-1 or CH-2 output level exceed 100mVp-p). If the result is not satisfactory,repeat steps 3) to 5).

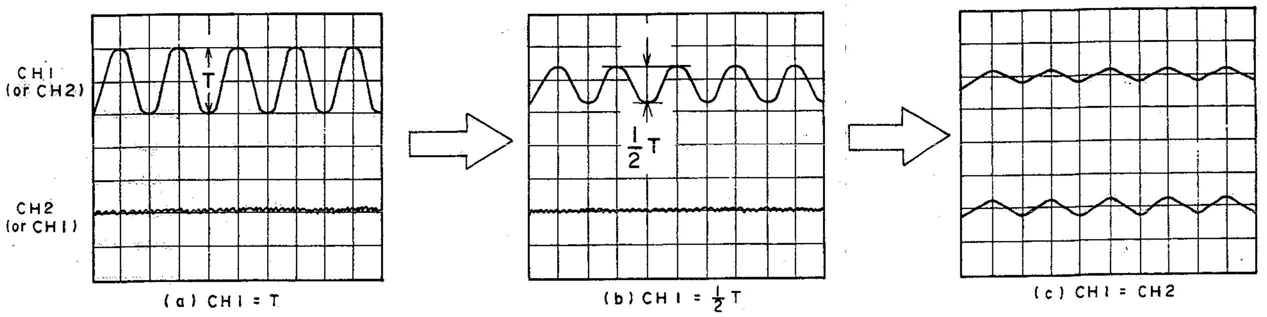


Fig. 4-14

4-3-3. phase adjustment

1) Connect an oscilloscope's CH-1 to the TR510 emitter (ENVE) on the MAIN (A) PCB and CH-2 to the TP1 (VSWP) on the PRE AMP PCB for triggering.
2) Play back the reference tape TF-530RFS (AT-751775).
3) Press one of the TRACKING buttons on the remote control until the "x" mark can be seen in the center position of the tracking range on the TV screen as shown in Fig.4-15.

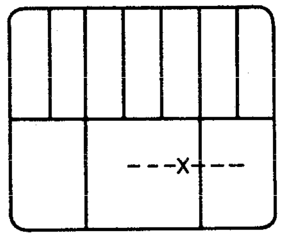


Fig. 4-15

4) Loosen the Ⓒ screw slightly so that the A/C HEAD PLATE can be moved with reasonable tightness.
5) Insert a sharp flat head (—) screwdriver into the A/C HEAD BASE and Ⓐ hole as shown in Fig.4-17.
6) Move the A/C HEAD BASE by moving a screwdriver in the direction of the arrow as shown in Fig.4-17 to obtain the maximum RF output, then tighten the Ⓒ screw.

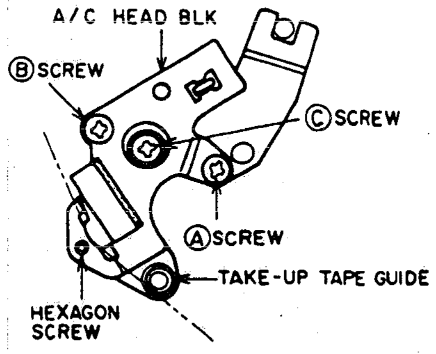

A/C HEAD BLK
ⒷSCREW
ⒸSCREW
ⒶSCREW
TAKE-UP TAPE GUIDE
HEXAGON SCREW

Fig. 4-16

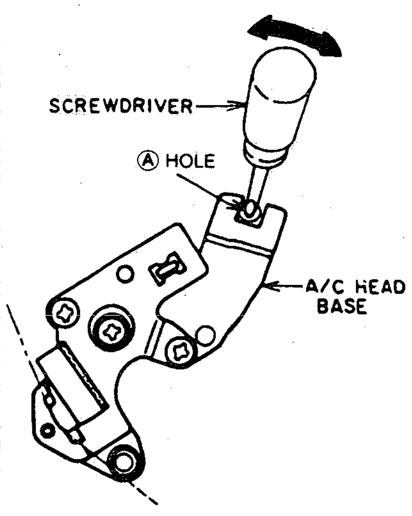

SCREWDRIVER
Ⓐ HOLE
A/C HEAD BASE

Fig. 4-17

V. ELECTRICAL ADJUSTMENT

Precautionary items prior to adjustments

1. The color bar generator output should be 1.0 Vp-p
2. The video output terminal should be terminated with 75 ohms (connect dummy load or 75 ohms input TV.)

Required following test tapes.

Test tape	Parts No.
TF-527BL	AT-711880
TF-530RFS	AT-751775
TF-532CBS	AT-751360

STEP | ADJUSTMENT ITEM

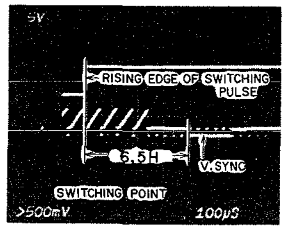
1. MODE and INPUT SIGNAL / TEST TAPE
2. TEST POINT and ADJ part
3. REMARKS (•) & RESULT (∗)

ADJ. part →

Test point - - →

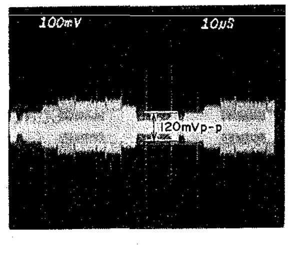
1 PB SWITCHING POINT

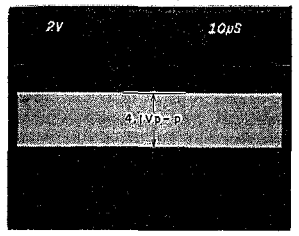
1. "PB", test tape TF-530RFS
2. TP1 (SWP), VIDEO OUT & VR301 (SW. POINT)
3. • Connect an oscilloscope's CH-1 to TP1 (SWP) for triggering and CH-2 to VIDEO OUT
   ∗ Adjust VR301 so that the switching point is positioned 6.5 H from the V-SYNC left edge as shown.



6 VIDEO REC CURRENT

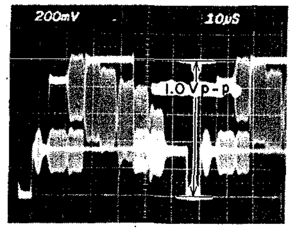
1. "REC", PAL color bar signal
2. P2 (REC. CURR), JW188 (C. SYNC) & VR1 (REC-CHROMA), VR2 (REC-Y)
3. • Connect an oscilloscope's CH-1 to P2 (REC.CURR) and CH-2 to JW188 (C.SYNC) for triggering.
   • Turn the VR2 (REC-Y) fully counterclockwise.
   ∗ Adjust VR1 (REC-CHROMA) so that the chroma REC current becomes 120 mVp-p at the burst signal area.
   ∗ Disconnect the input signal, then adjust VR2 (REC-Y) so that Y REC current becomes 4.1 Vp-p.





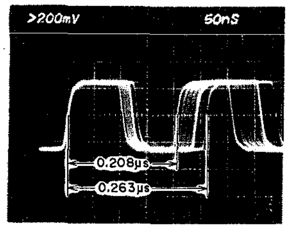
7 VIDEO PB LEVEL

1. "REC"-"PB", PAL color bar signal
2. VIDEO OUT & VR404 (PB LEVEL)
3. • Connect an oscilloscope to VIDEO OUT
   • Make some recording on the tape, then play it back
   ∗ Adjust VR404 so that PB level becomes 1.0 Vp-p



5 CARRIER SET & DEVIATION

1. "REC", PAL color bar signal
2. TP401 (REC.Y) & VR402 (CARRIER), VR403 (DEVIATION)
3. • Connect an oscilloscope to TP401 (REC. Y)
   • VR402 (CARRIER) : 0.263 μs (3.8 MHz)
   ∗ VR403 (DEVIATION) : 0.208 μs (4.8 MHz)

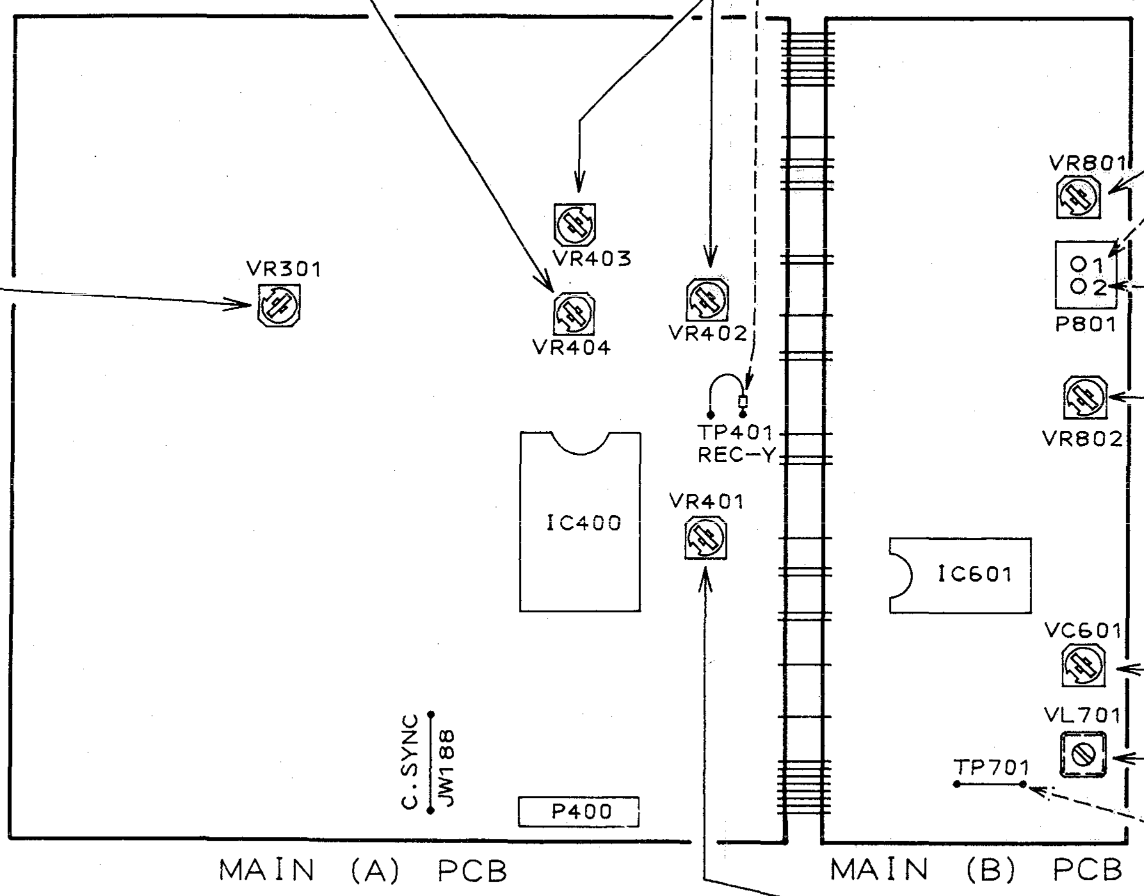


3 AUDIO REC BIAS

1. "REC", No signal input
2. P801 ① pin, ② pin & VR801
3. • Connect an AC voltmeter to P806 ① pin (GND side) and ② pin. (Do not connect the AC voltmeter's ground to the VCR's ground.)
   ∗ Adjust VR801 so that the reading on the AC voltmeter becomes 2.4 mV

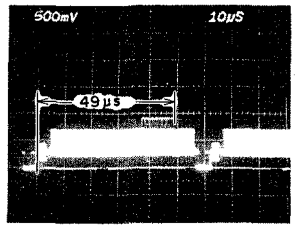
2 AUDIO PB LEVEL

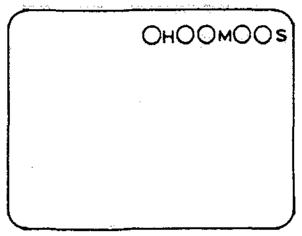
1. "PB", test tape TF-527BL
2. AUDIO OUT & VR802
3. • Connect AC voltmeter to AUDIO OUT
   ∗ -5 dBs



8 CHARACTER POSITION

1. "E-E" (STOP mode), No signal input
2. VIDEO OUT, TV screen & VC601 (IMS)
3. • Press "DISPLAY" button once on the remote control to display elapsed tape counter.
   • Connect an oscilloscope to VIDEO OUT
   ∗ Adjust VC601 (IMS) so that right end of the IMS signal becomes 49 μs from the H-SYNC as shown.





ON THE SCREEN

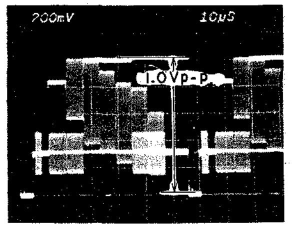
10 ENV. DET (ASO)

[This adjustment should be performed in the "TEST mode".]
To set the VCR to the TEST MODE, press and hold both the "POWER" and "EJECT" button on the front panel, then plug in the AC power cord. The TEST MODE can be cancelled by disconnecting the AC power cord or simply by pressing the SYSTEM RESET button.

1. Record PAL color bar signal on a normal type blank tape and then play it back.
2. Observe the number which displayed on the minute part of the FL display.
3. Adjust the VR3 so that the number displayed on the FL diplay be comes 88.

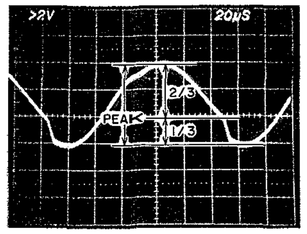
4 VIDEO E-E LEVEL

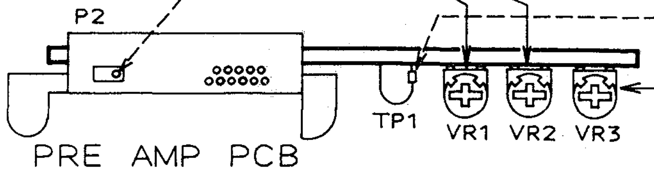
1. "E-E" (STOP mode), PAL color bar signal
2. VIDEO OUT & VR401 (E-E LEVEL)
3. • Connect an oscilloscope to VIDEO OUT.
   ∗ 1.0 Vp-p



9 P / S AUTO SENSITIVITY (VPS ONLY)

1. "E-E" (stop mode), SECAM color bar signal
2. TP701 (P / S SENS), VL701 (P / S SENS)
3. • Connect an oscilldscope to TP701 (P / S SENS).
   ∗ Adjust the VL701 so that distorted point of the waveform becomes 1/3 from the bottom as shown.





VI. VPS ADAPTOR ATTACHMENT

6-1. INSTALLATION OF THE VPS PC BOARD (FOR MODELS 810N, 810N/W, 810Y)

6-1-1. Installation of the PC SUPPORT

1) Insert the PC SUPPORT on the MAIN (A) PC BOARD.

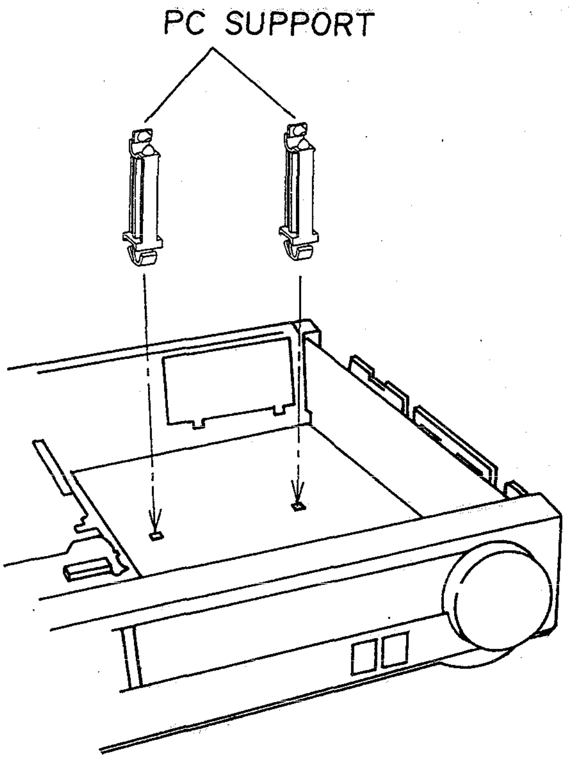


Fig. 6-1

6-1-2. Installation of the VPS PC BOARD

1) Insert the VPS PC BOARD into the slits of the PC SUPPORT shown in Fig. 6-2.
2) Position the holes on the front of the VPS PC BOARD over the two bosses on the chassis.
3) Tighten the Ⓐ screw (included) as shown in Fig. 6-3.
4) Connect the WP101 wire on the VPS PC BOARD to the connector P803 on the MAIN (B) PC BOARD.
5) Connect the WP103 wire on the VPS PC BOARD to the connector P1 on the MAIN (A) PC BOARD.
6) Connect the WP3 wire from the OPERATION (1) PC BOARD to the connector P104 on the VPS PC BOARD.

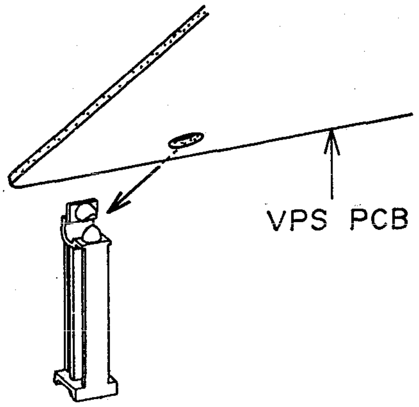


Fig. 6-2

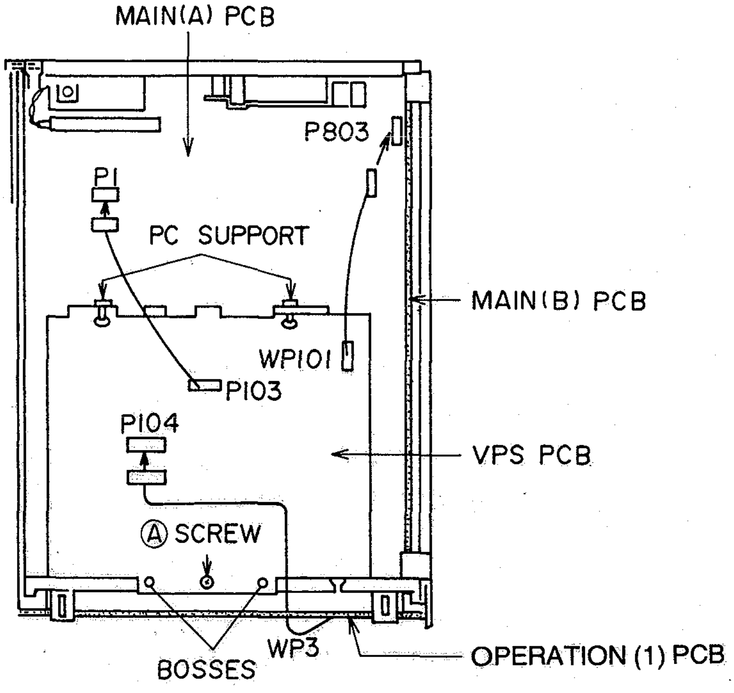

MAIN(A) PCB
P803
P1
PC SUPPORT
MAIN(B) PCB
WP101
P103
P104
VPS PCB
Ⓐ SCREW
BOSSES
WP3
OPERATION (1) PCB

Fig. 6-3

VII. PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list Part No., Model No. and the description of eachpart. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

Ref. No.	Part No.	Description
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20×03STL CMT
4	ZS-536488	BID20×08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in that figure.

b) PC Board

6. MAIN PC BOARD

Ref. No.	Part No.	Description
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
C1B	EC-350949	C MMY V 223M 250DC [J]
C1C	EC-338397	C MMY V 223M 125AC [C,A]
X1	EI-318384	OSC X'TAL NC-18C

Symbols for primary destination

[A] : AAL (U.S.A) [S] : SAA (Australia)
[B] : BEAB (England) [U] : U/T (Universal Area)
[C] : CSA (Canada)
[E] : CEE (Europe) [V] : VDE (Germany)
[J] : JPN (Japan) [Y] : Custom Version

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No.listed at right of Part No.

WARNING

⚠ (*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

1.RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref.No.	Part No.	Description
1	AV-B1016B010C	REMOCON BLK RC-800
2	BB-V1130A020B	MECHA DECK BLK F300EA
3	BL-V1102A140A	ARM LOADING BLK 425EA
4	BL-V1102A160A	ARM PINCH ROLLER (2) BLK 425EA
5	BL-387458J2	CAPSTAN BRAKE PART
6	BL-V1123A050A	TENSION ARM BLK F600EA
7	BM-400682J1	MOTOR DFX-67B3VWB1 [CAPSTAN MOTOR]
8	BM-401296J	MOTOR E20EL89 [DRUM MOTOR]
9	BM-387503J	MOTOR PART [LOADING MOTOR]
10	*BT-403873J	TRANS POW V1130 EO [EXCEPT V]
11	*BT-404028J	TRANS POW V1130 ES [V]
12	BV-V1102A150A	CASSETTE LOAD BLK 425EA
13	BV-V1102A070A	LEADER S BLK 425EA
14	BV-V1102A080A	LEADER T BLK 425EA
15	BV-V1123A410D	LOWER DRUM BLK F300EA
16	BV-403410J	RF CONVERTER MDLK6B733A EK [V]
17	BV-403409J	RF CONVERTER MDLK6D755A EO [EXCEPT V]
18	BV-V1102A420G	UPPER DRUM BLK F15EA
19	BV-403241J	VIF UNIT KX EOG [VPS/Y]
20	BV-403240J	VIF UNIT KX EOH [N]
21	BV-403242J	VIF UNIT KX ES [V]
22	*EC-391843J	C DOUBLE FYDOH 223Z 5.5DC
23	EC-363490	C EC V CUT SME 222M 16.0DC
24	EC-363491	C EC V CUT SME 222M 25.0DC
25	EC-406635J	C EC V SXE16 222M 35.0DC
26	EC-394757J	C S-FIX H T05 VCT51F 5.5-30
27	ED-394509J	D LED GL3HY43 ORANGE
28	ED-390011J	D LED GL451 INFRARED [D1]
29	ED-390012J	D LED GL4800 INFRARED [D2][D3]
30	ED-376111	D LED SE303AC INFRARED
31	ED-386226J	D SCHOTTKY RB100AT-32T26 40/1 [VPS]
32	ED-392779J	D SCHOTTKY 1SS198 T26
33	ED-386031J	D SILICON CHIP MA110-TW
34	ED-307572	D SILICON H 1SS131
35	ED-511907	D SILICON 1N4002 100/1.0A
36	ED-405373J	D ZENER H MTZJ16A T26
37	ED-403267J	D ZENER H MTZJ3.3B T26
38	ED-405524J	D ZENER H MTZJ36A T26
39	ED-403724J	D ZENER H UTZJ10A [EXCEPT V]
40	*ED-404029J	D ZENER H UTZJ10B T26
41	ED-403725J	D ZENER H UTZJ12C [V]
42	ED-404032J	D ZENER H UTZJ39A
43	ED-404091J	D ZENER H UTZJ4.7A [EXCEPT V]
44	ED-403728J	D ZENER H UTZJ5.1C
45	ED-403732J	D ZENER H UTZJ5.6A
46	ED-403729J	D ZENER H UTZJ5.6C
47	ED-404086J	D ZENER H UTZJ7.5C
48	ED-403731J	D ZENER H UTZJ8.2C [N]
49	ED-403279J	D ZENER H UTZJ9.1B
50	EE-387604J1	TV TUNER TERE1-007B EOG [VPS/Y]
51	EE-387603J	TV TUNER TERE1-019A EO [V]
52	EE-390143J1	TV TUNER TERE3-001B EOH [N]
53	EH-401244J	COMP R RGLD7X103J
54	EH-383083J	COMP R RGLE3X 103J
55	EH-403945J	COMP R RGLE9X 103J
56	EH-390730J	DL EFD-JF124A13J
57	EH-730625J	FILTER CE SAF38.9MZW70Z [EXCEPT V]
58	EH-366894	FILTER CE SFE-4.16MB 4.16MHZ [VPS]
59	EH-373920	FILTER CE SFE5.5MB [EXCEPT V]
60	EH-373921	FILTER CE SFE6.0MB [V]
61	EH-368948	FILTER CE TPS5.5MW 5.5000MHZ [EXCEPT V]
62	EH-373919	FILTER CE TPS6.0MB [V]
63	EH-394684J	FILTER EMI ZBF503D-00TA T05
64	EH-714627	FILTER SAW SAF38.9MW70Z [V]
65	EI-373980	IC BA15218N
66	EI-353421	IC BA6229
67	EI-366892	IC BA7025L [VPS]
68	EI-387586J	IC BA7244BS
69	EI-388360J	IC BA7765AS
70	EI-403231J	IC CD4066BE
71	EI-360586	IC LA6358S
72	EI-403234J	IC LA7391
73	EI-394856J	IC LC8992
74	EI-389622J	IC L5631
75	EI-390147J	IC MB88505HP-1097M SXVPS1
76	EI-403469J	IC MM1068XS
77	EI-403388J	IC MN675201 KLXSYP1 XAX
78	EI-368809	IC M51496P
79	EI-400756J	IC NJM4558L-B
80	EI-394613J	IC S-8052ALO-LG-T1
81	EI-373955	IC S-8053ALR
82	EI-385958J	IC SAA4700
83	EI-403965J	IC UPD6450CX-510 KXIMS
84	EI-405384J	IC UPD75217CW SKLOPP1-079
85	EI-405495J	IC UPD75306GF SV1REM7-178
86	EI-394467J	IC X24C01P
87	EI-403467J	OSC CE CSB500F40 15.680KHZ
88	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ
89	EI-389972J	OSC CE W/C FCR2.2MC3 2.2MHZ
90	EI-389974J	OSC X'TAL HC-49/U 17.734475MHZ
91	EI-389640J	OSC X'TAL HC-49/U 8000KHZ
92	EI-368825	OSC X'TAL MX-38T 32.768KHZ
93	EI-381632J	OSC X'TAL (86686) 4.433619MHZ
94	EM-403367J	IND FL FV506G CHARACTER
95	EM-396565J	IND LCD LD-B5137A
96	EO-345865	COIL FIX 1 EL0606SKI 100J
97	*EO-339907	COIL LF FKOB160MH16 1000.0UH [VPS]
98	*EO-395035J	COIL LF PLH11C-1811R2 [VPS]
99	EO-388362J	COIL OSC 1 V1102
100	EO-366893	COIL VARI 1 21D6 8.20MH [VPS]
101	*ER-404092J	R FUSE H S10 RF25S 1/4W R56J
102	*ER-400959J	R FUSE V T05 ERD2FCV 1/4W1200G
103	*ER-400605J	R FUSE V T05 ERD2FCV 1/4W15R0G
104	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
105	*ER-400729J	R FUSE V T05 RF25SCVTP1/4WR47K
106	*ER-404093J	R FUSE V T05 RF25SCVTP1/4WR56K [EXCEPT V]
107	ER-403405J	R OMF H S12 FS 1W R75J
108	ES-373099	SW LEAF MTS10110MPC1
109	ES-387465J	SW MODE SELECT MMS00070ZLBO [SW1]
110	ES-403379J	SW ROTARY ENCODER SRGPJJ
111	ES-396593J	SW SLIDE CHIP SSSS21 1-01-03N
112	ES-349474	SW TACT SKHHAM004A [RESET]
113	ET-381637J2	DETECTOR GP1U521X
114	ET-724885J	TR CHIP RT1N141C [VPS/Y]
115	ET-713614	TR CHIP 2SA1235 E,F
116	ET-725820J	TR CHIP 2SC2735J
117	ET-386068J	TR CHIP 2SD1820-TW R,S
118	ET-356336	TR DTA114ES
119	ET-354415	TR DTA144ES
120	ET-373985	TR DTA144TS
121	ET-353897	TR DTC114ES

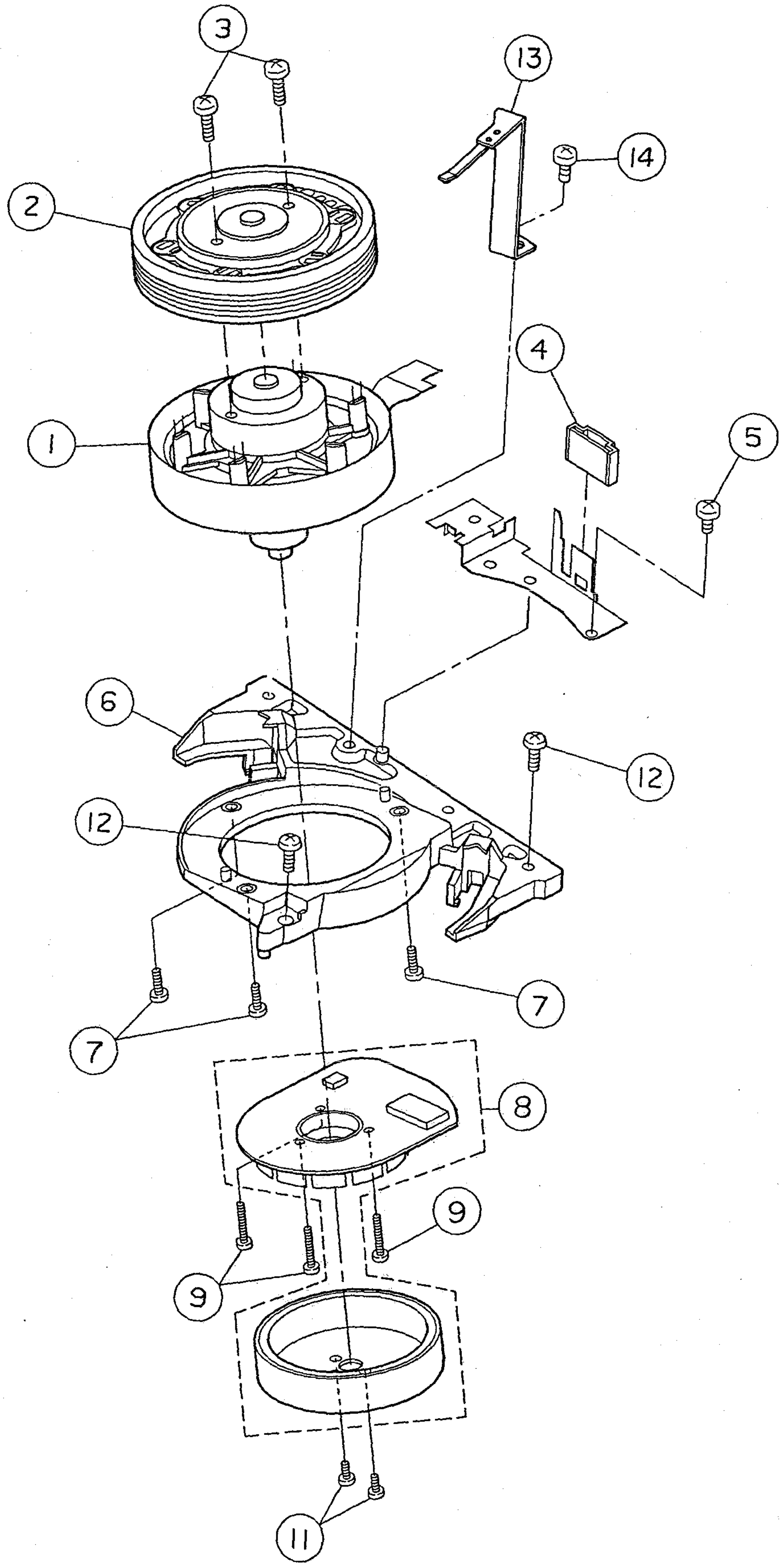
Ref.No.	Part No.	Description
122	ET-354364	TR DTC143TS [EXCEPT V]
123	ET-354414	TR DTC144ES
124	ET-361490	TR PHOTO PN268 [TR1]
125	ET-390010J	TR PHOTO PT4800 [TR2][TR3]
126	ET-390009J	TR PHOTO PT493F [TR4]
127	ET-353899	TR 2SA1317 S,T,U
128	ET-389803J	TR 2SA933S R,S
129	*ET-366365	TR 2SB1185 E,F
130	ET-388338J	TR 2SB1425 S,E
131	ET-400218J	TR 2SC1740S R,S
132	ET-375777	TR 2SC2926S P,Q
133	ET-397160J	TR 2SC3330 R,S,T,U,V
134	*ET-380685J	TR 2SD1761 E,F,G
135	*ET-381175J	TR 2SD1856
136	*ET-389417J	TR 2SD2096 E,F T05 [EXCEPT V]
137	HE-390013J	HEAD E HVFME0020A
138	HR-405340J	HEAD COMBO HVMZA1121A
139	MB-387289J	BELT CAPSTAN
140	MI-387294J	IDLLER PART
141	ML-391745J2	ARM DAMPER
142	ML-387350J1	ARM LID OPENER
143	ML-387277J3	ARM REVIEW PART
144	ML-387402J1	LEVER TRIGGER
145	ML-387316J	MAIN BRAKE (S) PART
146	ML-387318J	MAIN BRAKE (T) PART
147	ML-387321J	REVIEW BRAKE PART
148	ML-396018J	SLIDER BRAKE (2) PART
149	ML-404944J	SLIDER TRIGGER (2)
150	MR-404544J	HOLDER THRUST WORM (2)
151	MR-391968J	PULLEY TRIGGER (2)
152	MR-387286J1	ROLLER IMPEDANCE
153	MT-390954J1	DISK (2) PART
154	MZ-387298J3	DISK CLUTCH PART
155	MZ-396021J	GEAR CAM SLIDER (2)
156	MZ-387335J	GEAR EJECT
157	MZ-387333J	GEAR FRONT LOADING
158	MZ-V1102A090A	GEAR TOGGLE (S) BLK 425EA
159	MZ-V1102A100A	GEAR TOGGLE (T) BLK 425EA
160	MZ-387332J	GEAR WORM WHEEL
161	MZ-401686J	GEAR WORM (2)
162	SP-387357J	PANEL REAR JACK EK [EXCEPT VPS]
163	SP-388305J	PANEL REAR JACK EOG [VPS]

2. HEAD DRUM BLOCK

Ref.No.	Part No.	Description
1	BV-V1123A410D	LOWER DRUM BLK F300EA
2	BV-V1102A420G	UPPER DRUM BLK F15EA
3	ZS-321298	BID30X08STL CMT
4	SZ-387388J	HOLDER FPC
5	ZS-379405	BID30X06STL CMT
6	MA-387474J2	BASE DRUM
7	ZS-563444	BID26X08STL CMT
8	BM-401296J	MOTOR E20EL89 [DRUM MOTOR]
9	ZS-467796	PAN26X12STL CMT
11	ZS-379350	PAN30X06STL CMT
12	ZS-336714	ST BID30X12STL CMT
13	VT-401282J	EARTH BRUSH PART AG
14	ZS-389853J	DT BID30X06STL CMT C080

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

HEAD DRUM BLOCK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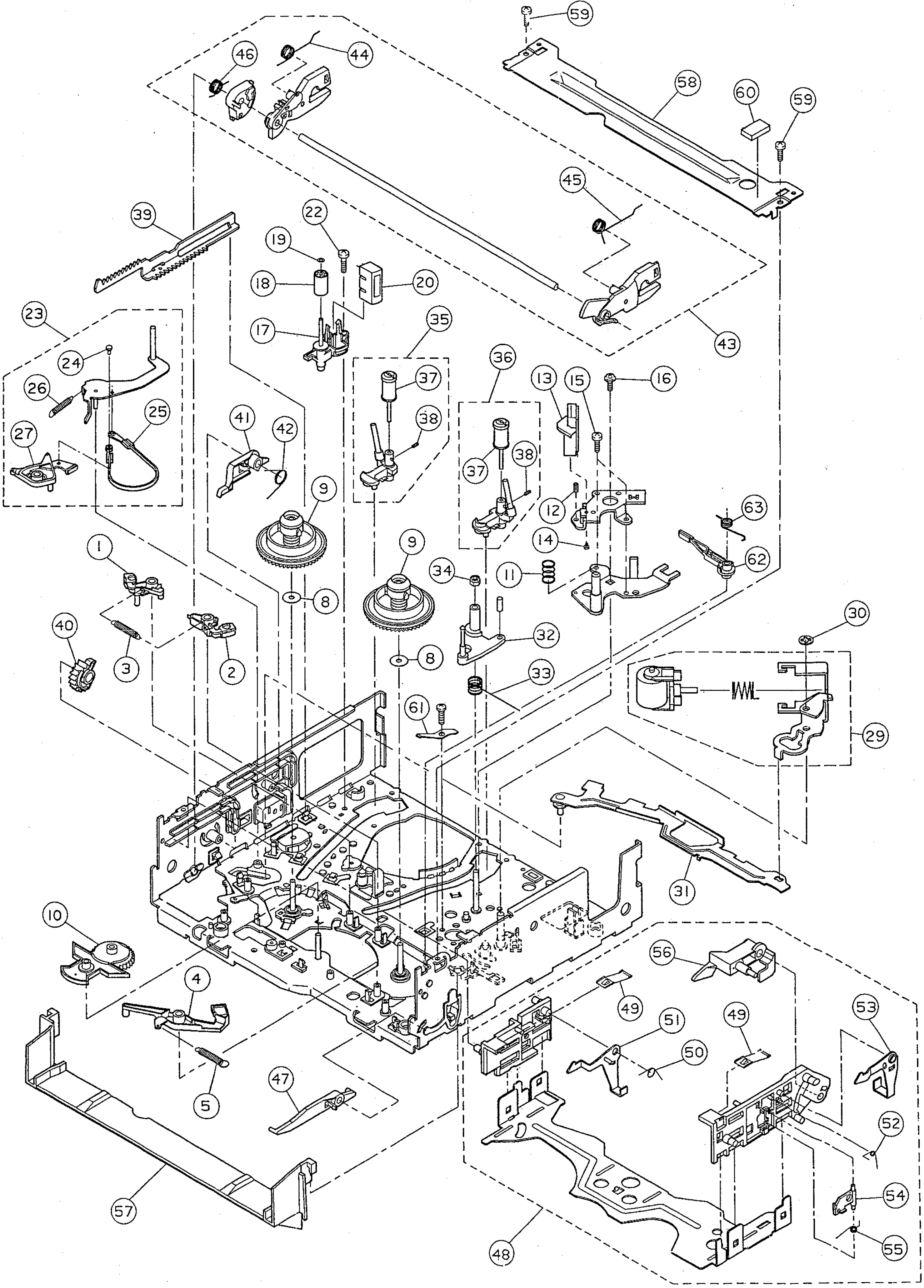
MECHA BLOCK (1)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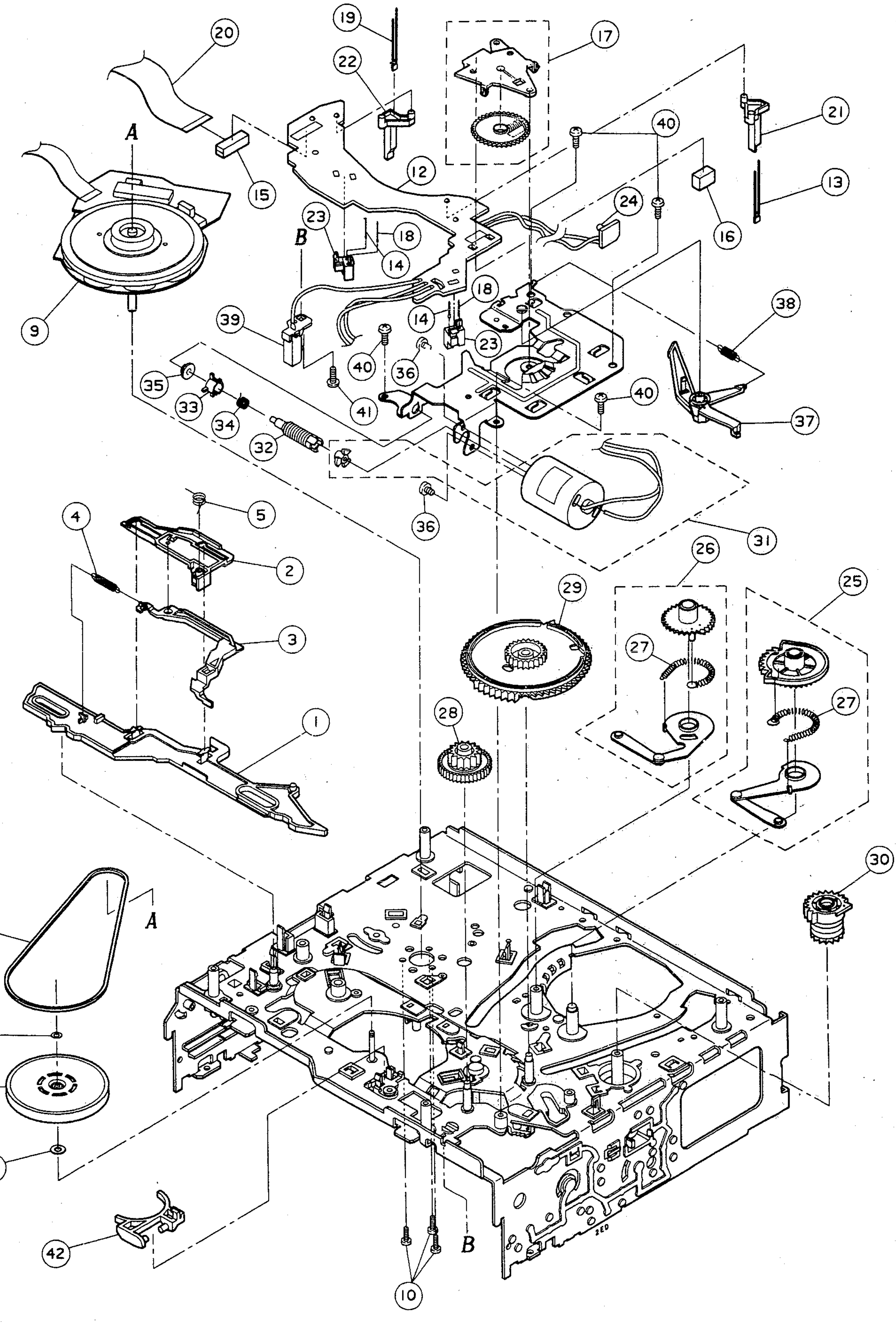
3. MECHA BLOCK (1)

Ref.No.	Part No.	Description
1	ML-387316J	MAIN BRAKE (S) PART
2	ML-387318J	MAIN BRAKE (T) PART
3	ZG-387320J	SP PULL MAIN BRAKE
4	ML-387321J	REVIEW BRAKE PART
5	ZG-387323J	SP PULL REVIEW BRAKE
8	ZW-389814J	PW31X110X050PSL
9	MT-390954J1	DISK (2) PART
10	MI-387294J	IDLLER PART
11	ZG-387438J1	SP PUSH A/C
12	ZG-373900	6SET30X080SCM PKR CP
13	HR-405340J	HEAD COMBO HVMZA1121A
14	ZS-404844J	PAN20X02STL BZN PS1
15	ZS-321298	BID30X08STL CMT
16	ZS-389853J	DT BID30X06STL CMT C080
17	MZ-402760J	HOLDER FE HEAD PART B
18	MR-387286J1	ROLLER IMPEDANCE
19	ZW-374445	SLIT W17X032X025PSL
20	HE-390013J	HEAD E HVFME0020A
22	ZS-336714	ST BID30X12STL CMT
23	BL-V1123A050A	TENSION ARM BLK F600EA
24	SZ-387263J2	HOLDER LEVER TENSION
25	ML-390768J1	TENSION BAND PART
26	ZG-395470J	SP PULL TENSION (2)
27	ML-395471J1	TENSION BRAKE PART
29	BL-V1102A160A	ARM PINCH ROLLER (2) BLK 425EA
30	ZW-332843	RETAINING RING GRIP 380STL ACP
31	ML-387431J1	SLIDER PINCH PART
32	ML-387277J3	ARM REVIEW PART
33	ZG-387282J	SP TORSION REVIEW
34	ZW-401776J	NUT REVIEW
35	BV-V1102A070A	LEADER S BLK 425EA
36	BV-V1102A080A	LEADER T BLK 425EA
37	VT-387394J1	GUIDE ROLLER D8 PART
38	ZS-374458	6SET20X030SCM PKR FP
39	ML-387428J	SLIDER FRONT LOADING
40	MZ-387335J	GEAR EJECT
41	ML-391745J2	ARM DAMPER
42	ZG-395567J	SP TORSION ARM DAMPER
43	BL-V1102A140A	ARM LOADING BLK 425EA
44	ZG-387417J	SP TORSION LOAD (S)
45	ZG-387418J	SP TORSION LOAD (T)
46	ZG-392831J	SP TORSION JOINT (2)
47	ML-387350J1	ARM LID OPENER
48	BV-V1102A150A	CASSETTE LOAD BLK 425EA
49	ZG-387348J1	SP PLATE HOLDER
50	ZG-387421J	SP TORSION DAMPER (S)
51	ML-387345J	LEVER DAMPER (S)
52	ZG-388290J1	SP TORSION DAMPER (T)
53	ML-387346J	LEVER DAMPER (T)
54	ML-387344J	LEVER LOCK RELEASE
55	ZG-387420J	SP TORSION RELEASE
56	ML-387349J2	ARM SHUTTER
57	SE-395554J	GUIDE FRONT (2)
58	MZ-387351J1	PLATE UPPER
59	ZS-358936	ST BID30X06STL CMT
60	SZ-391866J1	CUSHION COVER
61	ZG-392294J	SP PLATE EARTH
62	MZ-404539J	REW BRAKE PART
63	ZG-404541J	SP TORSION REW BRAKE
63	BB-V1130A020B	MECHA DECK BLK F300EA

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

MECHA BLOCK (2)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4. MECHA BLOCK (2)

Ref.No.	Part No.	Description
1	ML-396018J	SLIDER BRAKE (2) PART
2	ML-404944J	SLIDER TRIGGER (2)
3	ML-387402J1	LEVER TRIGGER
4	ZG-387468J	SP PULL SLIDER
5	ZG-387403J	SP TORSION COUPLING
6	ZW-389923J	PW26X060X050PSL
7	MZ-387298J3	DISK CLUTCH PART
8	ZW-387492J	SLIT W21X040X050PSL
9	BM-400682J1	MOTOR DFX-67B3VWB1 [CAPSTAN MOTOR]
10	ZS-365149	PT BID26X06STL CMT
11	MB-387289J	BELT CAPSTAN
12	EA-387496J	PC (#) SENSOR
13	ED-390011J	D LED GL451 INFRARED [D1]
14	ED-390012J	D LED GL4800 INFRARED [D2][D3]
15	EJ-387497J	SOCKET HOUSING 5062-30-10-13 [PS1]
16	EJ-381837J	SOCKET 174074-5 5P [P1]
17	ES-387465J	SW MODE SELECT MMS00070ZLBO [SW1]
18	ET-390010J	TR PHOTO PT4800 [TR2][TR3]
19	ET-390009J	TR PHOTO PT493F [TR4]
20	EW-389313J	CORD FFC P1.25 L=120 13P [WP1]
21	MZ-387430J	HOLDER D-LED
22	MZ-387445J	HOLDER S SENSOR
23	MZ-387446J	HOLDER PHOTO SENSOR
24	ET-361490	TR PHOTO PN268 [TR1]
25	MZ-V1102A090A	GEAR TOGGLE (S) BLK 425EA
26	MZ-V1102A100A	GEAR TOGGLE (T) BLK 425EA
27	ZG-387413J1	SP PULL TOGGLE
28	MZ-387332J	GEAR WORM WHEEL
29	MZ-396021J	GEAR CAM SLIDER (2)
30	MZ-387333J	GEAR FRONT LOADING
31	BM-387503J	MOTOR PART [LOADING MOTOR]
32	MZ-401686J	GEAR WORM (2)
33	MR-391968J	PULLEY TRIGGER (2)
34	ZG-387443J	SP TRIGGER
35	MR-404544J	HOLDER THRUST WORM (2)
36	ZS-425981	BID30X03STL CMT
37	BL-387458J2	CAPSTAN BRAKE PART
38	ZG-387502J	SP PULL CAPSTAN BRAKE
39	ES-373099	SW LEAF MTS10110MPC1
40	ZS-389950J	PT BID26X10STL CMT
41	ZS-358936	ST BID30X06STL CMT
42	ML-387311J2	ARM COUPLING

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

5. P.C BOARD BLOCK

Ref.No.	Part No.	Description
1A	BA-V1132A600H	PC (#) MAIN (PAL) BLK 810 N [N]
1B	BA-V1132A600J	PC (#) MAIN (PAL) BLK 810 VPS [VPS]
1C	BA-V1132Q600L	FRPC (#) MAIN (PAL) BLK 810 V/FR [V]
1D	BA-V1132Q600K	FRPC (#) MAIN (PAL) BLK810 Y/FR [Y]
2A	BA-V1140A630F	PC (#) OPERATION (S1) BLK 810 N [N]
2B	BA-V1140A630G	PC (#) OPERATION (S1) BLK 810 VPS [VPS]
2C	BA-V1140Q630J	FRPC—OPERATION (S1) BLK 810 V/FR [V]
2D	BA-V1140Q630H	FRPC—OPERATION (S1) BLK 810 Y/FR [Y]
3A	BA-V1132A615D	PC PRE AMP BLK 810 N [N/VPS/Y]
3B	BA-V1132Q615E	FR PC PRE AMP BLK 810 V/FR [V]
4A	BA-V1130A500E	PC POWER BLK F200EOH [N]
4B	BA-V1130A500D	PC POWER BLK F200EOG [VPS]
4C	BA-V1130A500B	PC POWER BLK F200EK [Y]
4D	BA-V1130A500A	PC POWER BLK F220EA [V]

PC (#) MAIN (PAL) BLK CONSISTS OF FOLLOWING P.C BOARD.

- MAIN (A) P.C BOARD
- MAIN (B) P.C BOARD

6. MAIN (A) P.C BOARD

Ref.No.	Part No.	Description
C369	*EC-391843J	C DOUBLE FYDOH 223Z 5.5DC
DL500	EH-390730J	DL EFD-JF124A13J
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
D3	ED-307572	D SILICON H 1SS131
D4	ED-307572	D SILICON H 1SS131
D5	ED-307572	D SILICON H 1SS131 [N]
D6	ED-403731J	D ZENER H UTZJ8.2C [N]
D7	ED-307572	D SILICON H 1SS131 [N]
D8	ED-403732J	D ZENER H UTZJ5.6A
D9	ED-307572	D SILICON H 1SS131 [VPS/Y]
D10	ED-307572	D SILICON H 1SS131 [VPS/Y]
D12	ED-403724J	D ZENER H UTZJ10A [EXCEPT V]
D13	ED-404091J	D ZENER H UTZJ4.7A [EXCEPT V]
D101	ED-403725J	D ZENER H UTZJ12C [V]
D201	ED-307572	D SILICON H 1SS131
D202	ED-307572	D SILICON H 1SS131
D203	ED-307572	D SILICON H 1SS131
D204	ED-403728J	D ZENER H UTZJ5.1C
D205	ED-403267J	D ZENER H MTZJ3.3B T26
D208	ED-307572	D SILICON H 1SS131
D209	ED-307572	D SILICON H 1SS131
D212	ED-511907	D SILICON 1N4002 100/1.0A
D213	ED-511907	D SILICON 1N4002 100/1.0A
D301	ED-307572	D SILICON H 1SS131
D302	ED-307572	D SILICON H 1SS131
D303	ED-404086J	D ZENER H UTZJ7.5C
D304	ED-403724J	D ZENER H UTZJ10A
D305	ED-307572	D SILICON H 1SS131
D306	ED-307572	D SILICON H 1SS131
D307	ED-307572	D SILICON H 1SS131
D308	ED-307572	D SILICON H 1SS131
D401	ED-307572	D SILICON H 1SS131
D402	ED-307572	D SILICON H 1SS131
D406	ED-392779J	D SCHOTTKY 1SS198 T26
D412	ED-403729J	D ZENER H UTZJ5.6C
D501	ED-307572	D SILICON H 1SS131 [EXCEPT V]
D506	ED-307572	D SILICON H 1SS131
D507	ED-307572	D SILICON H 1SS131
D508	ED-307572	D SILICON H 1SS131 [EXCEPT V]
FR201	*ER-400959J	R FUSE V T05 ERD2FCV 1/4W1200G
FR202	*ER-404093J	R FUSE V T05 RF25SCVTP1/4WR56K [EXCEPT V]
FR350	*ER-400729J	R FUSE V T05 RF25SCVTP1/4WR47K
FR501	*ER-404092J	R FUSE H S10 RF25S 1/4W R56J
IC1	EI-389622J	IC L5631
IC101	EI-403231J	IC CD4066BE
IC201	EI-400756J	IC NJM4558L-B
IC301	EI-403388J	IC MN675201 KLXSYP1 XAX
IC302	EI-353421	IC BA6229
IC303	EI-373980	IC BA15218N
IC304	EI-360586	IC LA6358S
IC400	EI-403234J	IC LA7391
IC401	EI-394856J	IC LC8992
L101	EO-345881	COIL FIX 1 EL0606SKI 101J
L102	EO-351869	COIL FIX 1 LAP02 F05 820K [EXCEPT V]
L301	EO-381196J	COIL FIX 1 EL0405SKI 470K
L302	EO-345881	COIL FIX 1 EL0606SKI 101J
L401	EO-354600	COIL FIX 1 LAP02 F05 101K
L402	EO-357508	COIL FIX 1 LAP02 F05 151K
L403	EO-381192J	COIL FIX 1 EL0405SKI 270K
L404	EO-345880	COIL FIX 1 EL0606SKI 820J
L405	EO-354600	COIL FIX 1 LAP02 F05 101K
L470	EO-356722	COIL FIX 1 LAP02 F05 6R8K
L472	EO-345880	COIL FIX 1 EL0606SKI 820J
L474	EO-388161J	COIL FIX 1 EL0405SKI 560K
L500	EO-345880	COIL FIX 1 EL0606SKI 820J
L501	EO-353900	COIL FIX 1 LAP02 F05 150K
L505	EO-345880	COIL FIX 1 EL0606SKI 820J

Ref.No.	Part No.	Description
L506	EO-345880	COIL FIX 1 EL0606SKI 820J
L507	EO-392817J	COIL FIX 1 EL0405SKI 1R2K
L508	EO-403937J	COIL FIX 1 EL0405RA T05 4R7J
L509	EO-345880	COIL FIX 1 EL0606SKI 820J
L510	EO-403270J	COIL FIX 1 EL0405RA T05 101J
L511	EO-381195J	COIL FIX 1 EL0405SKI 331K
L512	EO-381197J	COIL FIX 1 EL0405SKI 471K
MD1A	BV-403409J	RF CONVERTER MDLK6D755A EO [EXCEPT V]
MD1B	BV-403410J	RF CONVERTER MDLK6B733A EK [V]
PJ102	EJ-387613J	SOCKET M1812 21P
R214	ER-403405J	R OMF H S12 FS 1W R75J
TR1	ET-389803J	TR 2SA933S R,S
TR2	ET-375777	TR 2SC2926S P,Q
TR3	ET-389803J	TR 2SA933S R,S
TR4	ET-389803J	TR 2SA933S R,S
TR5	ET-389803J	TR 2SA933S R,S
TR6	ET-389803J	TR 2SA933S R,S [N]
TR7	ET-389803J	TR 2SA933S R,S
TR8	ET-354414	TR DTC144ES
TR9	ET-354414	TR DTC144ES
TR10	ET-354414	TR DTC144ES [N]
TR11	ET-389803J	TR 2SA933S R,S
TR12	ET-400218J	TR 2SC1740S R,S
TR13	ET-389803J	TR 2SA933S R,S [EXCEPT N]
TR14	ET-400218J	TR 2SC1740S R,S [N]
TR15	ET-353897	TR DTC114ES
TR16	ET-400218J	TR 2SC1740S R,S [N]
TR17	ET-400218J	TR 2SC1740S R,S
TR18	ET-400218J	TR 2SC1740S R,S
TR19	ET-354414	TR DTC144ES
TR20	*ET-389417J	TR 2SD2096 E,F T05 [EXCEPT V]
TR101	ET-354414	TR DTC144ES
TR102	ET-356336	TR DTA114ES
TR103	ET-354414	TR DTC144ES
TR104	ET-389803J	TR 2SA933S R,S
TR105	ET-353899	TR 2SA1317 S,T,U
TR106	ET-400218J	TR 2SC1740S R,S [EXCEPT V]
TR107	ET-400218J	TR 2SC1740S R,S
TR108	ET-356336	TR DTA114ES [EXCEPT V]
TR109	ET-400218J	TR 2SC1740S R,S
TR202	ET-356336	TR DTA114ES
TR203	ET-400218J	TR 2SC1740S R,S
TR205	ET-388338J	TR 2SB1425 S,E
TR210	*ET-389417J	TR 2SD2096 E,F T05
TR301	ET-354414	TR DTC144ES
TR302	ET-400218J	TR 2SC1740S R,S
TR304	ET-354415	TR DTA144ES
TR305	ET-354414	TR DTC144ES
TR306	ET-354414	TR DTC144ES
TR307	ET-373985	TR DTA144TS
TR308	ET-373985	TR DTA144TS
TR309	ET-373985	TR DTA144TS
TR310	ET-354414	TR DTC144ES
TR401	ET-356336	TR DTA114ES
TR406	ET-389803J	TR 2SA933S R,S
TR407	ET-389803J	TR 2SA933S R,S
TR408	ET-354414	TR DTC144ES
TR414	ET-388338J	TR 2SB1425 S,E
TR419	ET-354414	TR DTC144ES
TR423	ET-356336	TR DTA114ES
TR424	ET-388338J	TR 2SB1425 S,E
TR470	ET-389803J	TR 2SA933S R,S
TR471	ET-389803J	TR 2SA933S R,S
TR501	ET-353897	TR DTC114ES
TR503	ET-400218J	TR 2SC1740S R,S
TR506	ET-400218J	TR 2SC1740S R,S
TR509	ET-400218J	TR 2SC1740S R,S
TR513	ET-356336	TR DTA114ES
TR514	ET-354414	TR DTC144ES
TR515	ET-400218J	TR 2SC1740S R,S
VR301	EV-397066J	R S-FIX H T05EVNDXAA03 0.1W333
VR401	EV-389476J	R S-FIX H T05EVNDXAA03 0.1W103
VR402	EV-389479J	R S-FIX H T05EVNDXAA03 0.1W223
VR403	EV-389482J	R S-FIX H T05EVNDXAA03 0.1W682
VR404	EV-389479J	R S-FIX H T05EVNDXAA03 0.1W223
WF201	EW-404138J	CORD KX MA-POW L=220 12P
X301	EI-389640J	OSC X'TAL HC-49/U 8000KHZ
X500	EI-381632J	OSC X'TAL (86686) 4.433619MHZ
1A	SP-387357J	PANEL REAR JACK EK [EXCEPT VPS]
1B	SP-388305J	PANEL REAR JACK EOG [VPS]
IF1A	BV-403240J	VIF UNIT KX EOH [N]
IF1B	BV-403241J	VIF UNIT KX EOG [VPS/Y]
IF1C	BV-403242J	VIF UNIT KX ES [V]
TU1A	EE-390143J1	TV TUNER TERE3-001B EOH [N]
TU1B	EE-387604J1	TV TUNER TERE1-007B EOG [VPS/Y]
TU1C	EE-387603J	TV TUNER TERE1-019A EO [V]

7. MAIN (B) P.C BOARD

Ref.No.	Part No.	Description
D601	ED-307572	D SILICON H 1SS131
D603	ED-307572	D SILICON H 1SS131 [EXCEPT V]
D801	ED-307572	D SILICON H 1SS131
D802	ED-386226J	D SCHOTTKY RB100AT-32T26 40/1 [VPS]
FL701	EH-366894	FILTER CE SFE-4.16MB 4.16MHZ [VPS]
FL801	EO-388362J	COIL OSC 1 V1102
IC601	EI-403965J	IC UPD6450CX-510 KXIMS
IC602	EI-403469J	IC MM1068XS
IC701	EI-366892	IC BA7025L [VPS]
IC801	EI-388360J	IC BA7765AS
L601	EO-345881	COIL FIX 1 EL0606SKI 101J
L602	EO-345876	COIL FIX 1 EL0606SKI 470J
L603	EO-351866	COIL FIX 1 LAP02 F05 330K [EXCEPT V]
L604	EO-351866	COIL FIX 1 LAP02 F05 330K
L605	EO-345881	COIL FIX 1 EL0606SKI 101J
L606	EO-356722	COIL FIX 1 LAP02 F05 6R8K
L701	EO-345881	COIL FIX 1 EL0606SKI 101J [VPS]
L801	EO-390717J	COIL FIX 1 LHL06TB T05 103J
L802	EO-390716J	COIL FIX 1 LHL06TB T05 272J
TR601	ET-389803J	TR 2SA933S R,S
TR602	ET-354414	TR DTC144ES
TR603	ET-400218J	TR 2SC1740S R,S
TR604	ET-400218J	TR 2SC1740S R,S [EXCEPT V]
TR605	ET-356336	TR DTA114ES [EXCEPT V]
TR606	ET-356336	TR DTA114ES [EXCEPT V]
TR607	ET-389803J	TR 2SA933S R,S
TR608	ET-389803J	TR 2SA933S R,S
TR609	ET-354414	TR DTC144ES [EXCEPT V];
TR701	ET-400218J	TR 2SC1740S R,S [VPS]
TR702	ET-400218J	TR 2SC1740S R,S [VPS]
TR801	ET-400218J	TR 2SC1740S R,S
VC601	EC-394757J	C S-FIX H T05 VCT51F 5.5-30
VL701	EO-366893	COIL VARI 1 21D6 8.20MH [VPS]
VR801	EV-403967J	R S-FIX V T05EVNDCAA03 0.1W332
VR802	EV-403968J	R S-FIX V T05EVNDCAA03 0.1W473
X601	EI-389974J	OSC X'TAL HC-49/U 17.734475MHZ
X602	EI-403467J	OSC CE CSB500F40 15.680KHZ

8. PRE-AMP P.C BOARD

Ref.No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
D3	ED-307572	D SILICON H 1SS131
IC1	EI-387586J	IC BA7244BS
L1	EO-376600	COIL FIX 1 LF-5.0S F05 101K
L2	EO-376612	COIL FIX 1 LF-5.0S F05 680K
L3	EO-376857	COIL FIX 1 LF-5.0S F05 5R6K
L5	EO-376606	COIL FIX 1 LF-5.0S F05 180K
L6A	EO-387803J	COIL FIX 1 EL0405SKI 221K [EXCEPT V]
L6B	EO-381193J	COIL FIX 1 EL0405SKI 271K [V]
L7	EO-376860	COIL FIX 1 LF-5.0S F05 820K
L8	EO-345880	COIL FIX 1 EL0606SKI 820J
L9	EO-376614	COIL FIX 1 LF-5.0S F05 220K
L10	EO-345880	COIL FIX 1 EL0606SKI 820J
L11	EO-345880	COIL FIX 1 EL0606SKI 820J
L12A	EO-376601	COIL FIX 1 LF-5.0S F05 120K [EXCEPT V]
L12B	EO-376859	COIL FIX 1 LF-5.0S F05 8R2K [V]
L13	EO-381195J	COIL FIX 1 EL0405SKI 331K
L14A	EO-376605	COIL FIX 1 LF-5.0S F05 151K [EXCEPT V]
L14B	EO-376607	COIL FIX 1 LF-5.0S F05 181K [V]
L15	EO-376612	COIL FIX 1 LF-5.0S F05 680K
PS1	EJ-403981J	SOCKET HOUSING 5062-30-10-16
TR1	ET-353899	TR 2SA1317 S,T,U
TR2	ET-397160J	TR 2SC3330 R,S,T,U,V
TR6	ET-354414	TR DTC144ES [EXCEPT V]
TR7	ET-397160J	TR 2SC3330 R,S,T,U,V
TR8	ET-397160J	TR 2SC3330 R,S,T,U,V
TR9	ET-397160J	TR 2SC3330 R,S,T,U,V
TR11	ET-353899	TR 2SA1317 S,T,U
TR12	ET-353899	TR 2SA1317 S,T,U
TR14	ET-397160J	TR 2SC3330 R,S,T,U,V
TR15	ET-354364	TR DTC143TS [EXCEPT V]
TR18	ET-353897	TR DTC114ES
TR20	ET-354414	TR DTC144ES
TR21	ET-400218J	TR 2SC1740S R,S
VR1	EV-390157J	R S-FIX V KVSF639A 0.10W 102
VR2	EV-390157J	R S-FIX V KVSF639A 0.10W 102
VR3	EV-403957J	R S-FIX V KVSF639A 0.10W 331
WP1	EW-403385J	CORD FFC P1.25 L=KLX 16P

9. OPERATION P.C BOARD

Ref.No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131 [N]
D2	ED-307572	D SILICON H 1SS131 [EXCEPT V]
D8	ED-307572	D SILICON H 1SS131 [VPS]
D9	ED-307572	D SILICON H 1SS131 [N/Y]
D10	ED-403279J	D ZENER H UTZJ9.1B
D11	ED-403731J	D ZENER H UTZJ8.2C
D12	ED-307572	D SILICON H 1SS131
D13	ED-307572	D SILICON H 1SS131
D14	ED-307572	D SILICON H 1SS131
D15	ED-307572	D SILICON H 1SS131
D16	ED-307572	D SILICON H 1SS131
D17	ED-307572	D SILICON H 1SS131
D18	ED-307572	D SILICON H 1SS131
D19	ED-307572	D SILICON H 1SS131
D20	ED-307572	D SILICON H 1SS131
D21	ED-307572	D SILICON H 1SS131
D22	ED-307572	D SILICON H 1SS131
D23	ED-307572	D SILICON H 1SS131
D24	ED-307572	D SILICON H 1SS131
D25	ED-307572	D SILICON H 1SS131
D26	ED-307572	D SILICON H 1SS131
D27	ED-307572	D SILICON H 1SS131
D35	ED-394509J	D LED GL3HY43 ORANGE
D36	ED-307572	D SILICON H 1SS131
D37	ED-307572	D SILICON H 1SS131
D38	ED-307572	D SILICON H 1SS131
FL1	EM-403367J	IND FL FV506G CHARACTER
IB1	EH-403945J	COMP R RGLE9X 103J
IB2	EH-383083J	COMP R RGLE3X 103J
IC1	EI-405384J	IC UPD75217CW SKLOPP1-079
IC2	EI-394467J	IC X24C01P
IC3	EI-373955	IC S-8053ALR
PH1	ET-381637J2	DETECTOR GP1U521X
PS1	EJ-389815J	SOCKET HOUSING 5062-30-10-15
PS2	EJ-387497J	SOCKET HOUSING 5062-30-10-13
SW1	ES-349474	SW TACT SKHHAM004A [RESET]
SW2	ES-349474	SW TACT SKHHAM004A [POWER]
SW3	ES-349474	SW TACT SKHHAM004A [EJECT]
SW4	ES-349474	SW TACT SKHHAM004A [RWD]
SW5	ES-349474	SW TACT SKHHAM004A [FF]
SW6	ES-349474	SW TACT SKHHAM004A [REC]
SW8	ES-349474	SW TACT SKHHAM004A [PLAY]
SW9	ES-349474	SW TACT SKHHAM004A [CH UP]
SW10	ES-349474	SW TACT SKHHAM004A [TIM.M]
SW11	ES-349474	SW TACT SKHHAM004A [CH DOWN]
SW12	ES-349474	SW TACT SKHHAM004A [T.STOP]
SW13	ES-349474	SW TACT SKHHAM004A [TIM.H]
SW14	ES-349474	SW TACT SKHHAM004A [STOP]
SW15	ES-349474	SW TACT SKHHAM004A [TV/VCR]
SW16	ES-349474	SW TACT SKHHAM004A [STILL]
SW18	ES-349474	SW TACT SKHHAM004A [TIMER]
SW20	ES-349474	SW TACT SKHHAM004A [SLOW]
SW21	ES-349474	SW TACT SKHHAM004A [ASO]
TR1	ET-354414	TR DTC144ES
TR2	ET-354414	TR DTC144ES
WP1	EW-394623J	CORD FFC P1.25 L=110 15P
WP2	EW-389313J	CORD FFC P1.25 L=120 13P
X1	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ
X2	EI-368825	OSC X'TAL MX-38T 32.768KHZ

10. JOG SHUTTLE P.C BOARD

Ref.No.	Part No.	Description
SW1	ES-403379J	SW ROTARY ENCODER SRGPJJ

11. VIF UNIT

Ref.No.	Part No.	Description
CF1A	EH-730625J	FILTER CE SAF38.9MZW70Z [EXCEPT V]
CF1B	EH-714627	FILTER SAW SAF38.9MW70Z [V]
CF2A	EH-373920	FILTER CE SFE5.5MB [EXCEPT V]
CF2B	EH-373921	FILTER CE SFE6.0MB [V]
CF3A	EH-368948	FILTER CE TPS5.5MW 5.5000MHZ [EXCEPT V]
CF3B	EH-373919	FILTER CE TPS6.0MB [V]
IC1	EI-368809	IC M51496P
L1	EO-387800J	COIL FIX 1 EL0405SKI 2R7K
L3A	EO-725953J	COIL SIF DET 6F16263A2 [EXCEPT V]
L3B	EO-725954J	COIL SIF DET 6F16263A3 [V]
L4	EO-714614	COIL RF 6F16115B1
L5	EO-714610	COIL RF 6F16113B1
L6A	EO-387799J	COIL FIX 1 EL0405SKI 180K [EXCEPT V]
L6B	EO-387798J	COIL FIX 1 EL0405SKI 150K [V]
L7A	EO-387799J	COIL FIX 1 EL0405SKI 180K [VPS/Y]
L7B	EO-387798J	COIL FIX 1 EL0405SKI 150K [N/V]
L8	EO-387802J	COIL FIX 1 EL0405SKI 330K
L51	EO-725964J	COIL TRAP 6F16222A1 [VPS/Y]
L52	EO-725965J	COIL TRAP 6F16223A1 [VPS/Y]
Q1	ET-725820J	TR CHIP 2SC2735J
Q2	ET-713614	TR CHIP 2SA1235 E,F
Q51	ET-724885J	TR CHIP RT1N141C [VPS/Y]
Q52	ET-724885J	TR CHIP RT1N141C [VPS/Y]
VR2	EV-396023J	R S-FIX H T05EVNDXAA03 0.1W222
VR51	EV-389479J	R S-FIX H T05EVNDXAA03 0.1W223
VR52	EV-389479J	R S-FIX H T05EVNDXAA03 0.1W223 [VPS/Y]

12. POWER SUPPLY P.C BOARD

Ref.No.	Part No.	Description
C1	EC-363491	C EC V CUT SME 222M 25.0DC
C2	EC-363490	C EC V CUT SME 222M 16.0DC
C3	EC-406635J	C EC V SXE16 222M 35.0DC
D1	*ED-511907	D SILICON 1N4002 100/1.0A
D2	*ED-511907	D SILICON 1N4002 100/1.0A
D3	*ED-511907	D SILICON 1N4002 100/1.0A
D4	*ED-511907	D SILICON 1N4002 100/1.0A
D5	*ED-511907	D SILICON 1N4002 100/1.0A
D6	*ED-511907	D SILICON 1N4002 100/1.0A
D7	*ED-511907	D SILICON 1N4002 100/1.0A
D8	*ED-511907	D SILICON 1N4002 100/1.0A
D9	*ED-511907	D SILICON 1N4002 100/1.0A
D10	*ED-511907	D SILICON 1N4002 100/1.0A
D11	*ED-511907	D SILICON 1N4002 100/1.0A
D12	*ED-511907	D SILICON 1N4002 100/1.0A
D13	ED-405373J	D ZENER H MTZJ16A T26
D14	ED-404032J	D ZENER H UTZJ39A
D15	ED-405524J	D ZENER H MTZJ36A T26
D16	*ED-404029J	D ZENER H UTZJ10B T26
FL1	*EO-339907	COIL LF FKOB160MH16 1000.0UH [VPS]
FL2	*EO-395035J	COIL LF PLH11C-1811R2 [VPS]
FR1	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
FR2	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
FR3	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
FR4	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
FR5	*ER-400605J	R FUSE V T05 ERD2FCV 1/4W15R0G
TR1	*ET-381175J	TR 2SD1856
TR2	*ET-366365	TR 2SB1185 E,F
TR3	*ET-380685J	TR 2SD1761 E,F,G
TR4	*ET-380685J	TR 2SD1761 E,F,G
TR5	*ET-380685J	TR 2SD1761 E,F,G
TR6	*ET-380685J	TR 2SD1761 E,F,G
TR7	*ET-366365	TR 2SB1185 E,F

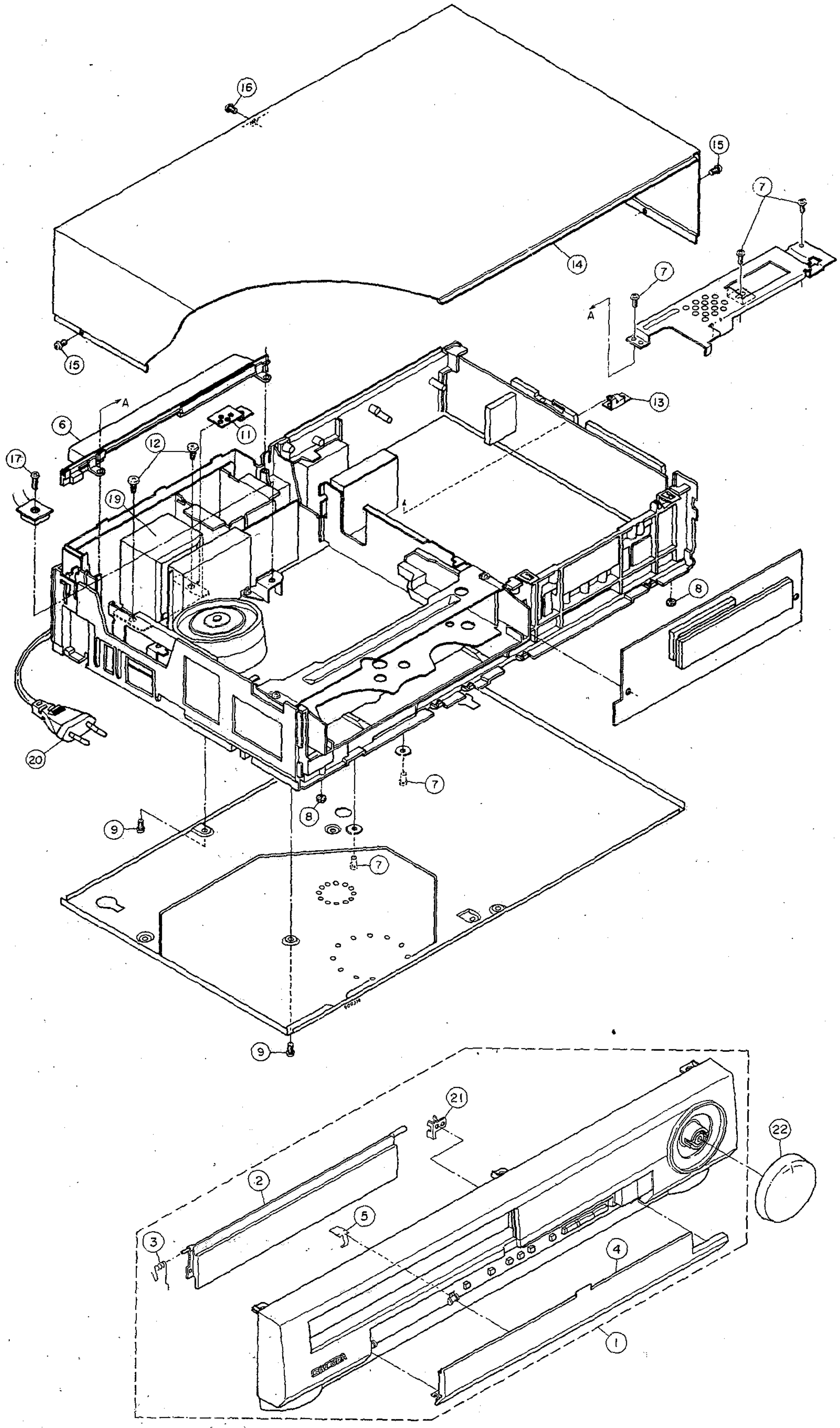
13. ASO P.C BOARD

Ref.No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
D3	ED-307572	D SILICON H 1SS131
L1	EO-345876	COIL FIX 1 EL0606SKI 470J
L2	EO-345878	COIL FIX 1 EL0606SKI 680J
L3	EO-360554	COIL FIX 1 LAP02 F05 221K
L4	EO-345880	COIL FIX 1 EL0606SKI 820J
TR1	ET-405467J	TR 2SA1177 D,E,F T05
TR2	ET-405468J	TR 2SC2839 D,E,F T05
TR3	ET-400218J	TR 2SC1740S R,S
TR4	ET-405467J	TR 2SA1177 D,E,F T05
TR5	ET-405468J	TR 2SC2839 D,E,F T05
TR6	ET-405468J	TR 2SC2839 D,E,F T05
TR7	ET-405467J	TR 2SA1177 D,E,F T05
TR8	ET-405468J	TR 2SC2839 D,E,F T05
TR9	ET-405468J	TR 2SC2839 D,E,F T05
TR10	ET-405468J	TR 2SC2839 D,E,F T05
TR11	ET-405467J	TR 2SA1177 D,E,F T05
TR12	ET-400218J	TR 2SC1740S R,S
TR13	ET-400218J	TR 2SC1740S R,S
TR14	ET-400218J	TR 2SC1740S R,S
TR15	ET-400218J	TR 2SC1740S R,S

14. VPS P.C BOARD

Ref.No.	Part No.	Description
D101	ED-307572	D SILICON H 1SS131
FL101	EH-394684J	FILTER EMI ZBF503D-00TA T05
IB101	EH-401244J	COMP R RGLD7X103J
IC101	EI-385958J	IC SAA4700
IC102	EI-390147J	IC MB88505HP-1097M SXVPS1
L101	EO-345865	COIL FIX 1 EL0606SKI 100J
L102	EO-345865	COIL FIX 1 EL0606SKI 100J
L103	EO-345865	COIL FIX 1 EL0606SKI 100J
TR101	ET-397160J	TR 2SC3330 R,S,T,U,V
X101	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ

FINAL ASSEMBLY


16
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A
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3
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1

15. FINAL ASSEMBLY

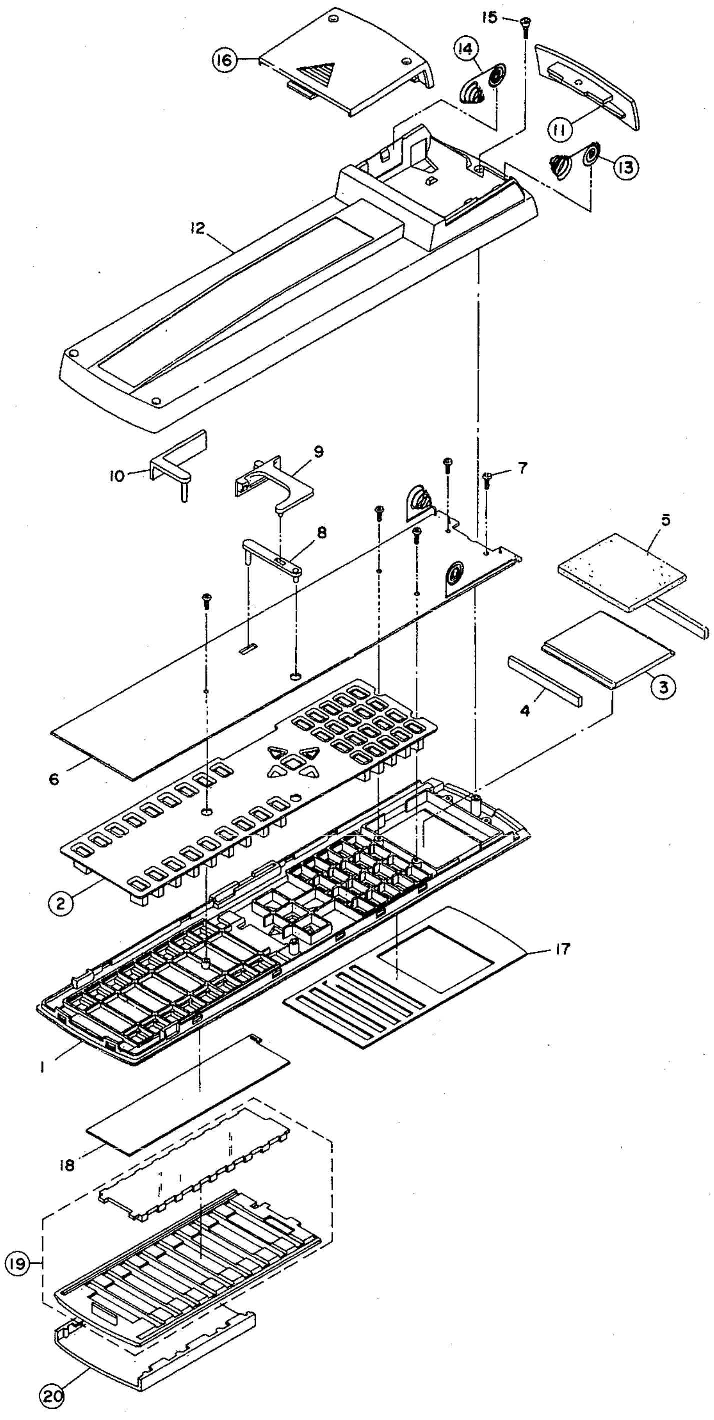
Ref.No.	Part	No.Description
1A-B	BD-406290J3	PANEL FRONT 810 N PART
1B-W	BD-406291J3	PANEL FRONT 810 N/W PART
2A-B	SE-406267J1	MASK CASSETTE 611
2B-W	SE-406277J1	MASK CASSETTE 810-W
3	ZG-387370J	SP MASK
4A-B	SP-406270J	DOOR 810
4B-W	SP-406272J	DOOR 810-W
5	ZG-386833J1	SP PLATE DOOR (D)
6	SC-401674J	COVER TRANS (2)
7	ZS-378341	PLX BID30X12STL CMT
8	SA-387507J	FOOT SX
9	ZS-358936	ST BID30X06STL CMT
11	ZG-387505J	PLATE EARTH
12	ZS-373962	PLX BID40X10STL CMT
13	ZG-387354J	PLATE EARTH (2)
14A-B	SP-401395J1	COVER UPPER SLR-B
14B-W	SP-401394J1	COVER UPPER SLR-W
15A-B	ZS-385611J	DT BID26X06STL BNI
15B-W	ZS-385610J	DT BID26X06STL NI3
16	ZS-391046J	PLX BID26X10STL BNI
19A	*BT-403873J	TRANS POW V1130 EO [EXCEPT V]
19B	*BT-404028J	TRANS POW V1130 ES [V]
20	*EW-404002M	AC CORD 200 SE-1 WITH TUBE E
21	SZ-401874J	STOPPER MASK
22A-B	SK-404758J	KNOB SHUTTLE
22B-W	SK-406292J	KNOB SHUTTLE-W

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

16. ACCESSARY

Ref.No.	Part No.	Description
1	EW-348414	CORD PAL
2	AV-B1016B010C	REMOCON BLK RC-800

REMOCON RC-800


15
⑯
⑭
⑪
⑬
12
10
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③
4
6
②
17
1
18
⑲
⑳

17. REMOCON RC800

Ref.No.	Part No.	Description
2	MB-396564J	KEY RUBBER (R)
3	EM-396565J	IND LCD LD-B5137A
11	SE-396575J1	FILTER
13	ZG-396577J	TERMINAL BATTERY (R3)
14	ZG-396578J	TERMINAL BATTERY (R4)
16	SC-396579J1	COVER BATTERY (R)
19	SP-397195J	PANEL PART
20	SP-396590J	SLIDE DOOR

18. REMOCON P.C BOARD (RC-800)

Ref.No.	Part No.	Description
C101	EC-396592J	C DBL LAYER AC310-301G473Z 5.5
D1	ED-376111	D LED SE303AC INFRARED
D101	ED-376111	D LED SE303AC INFRARED
D102	ED-386031J	D SILICON CHIP MA110-TW
IC1	EI-405495J	IC UPD75306GF SV1REM7-178
IC2	EI-394613J	IC S-8052ALO-LG-T1
SW101	ES-396593J	SW SLIDE CHIP SSSS21 1-01-03N
TR1	ET-386068J	TR CHIP 2SD1820-TW R,S
X1	EI-368825	OSC X'TAL MX-38T 32.768KHZ
X2	EI-389972J	OSC CE W/C FCR2.2MC3 2.2MHZ
1	ZG-396594J	TERMINAL BATTERY (R1)
2	ZG-396596J	TERMINAL BATTERY (R2)

SALORA

MODEL SALORA 810N, N / W, VPS, Y, V

SCHEMATIC DIAGRAMS AND PC BOARDS

TABLE OF CONTENTS

I. BLOCK DIAGRAMS

1. OPERATION & SYSCON 3
2. VIDEO & AUDIO 4
3. SERVO 5

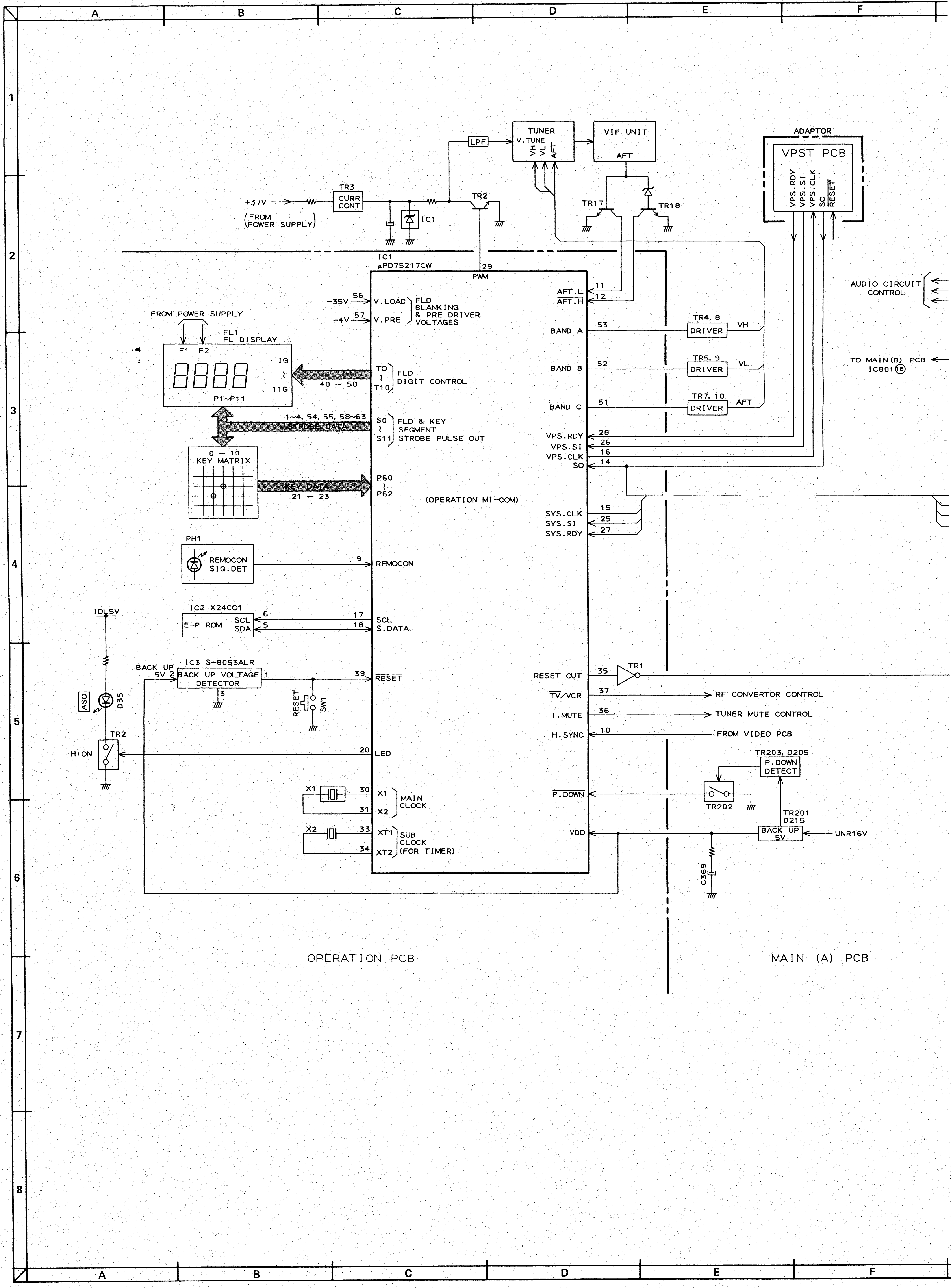
II. SCHEMATIC DIAGRAMS AND PC BOARDS

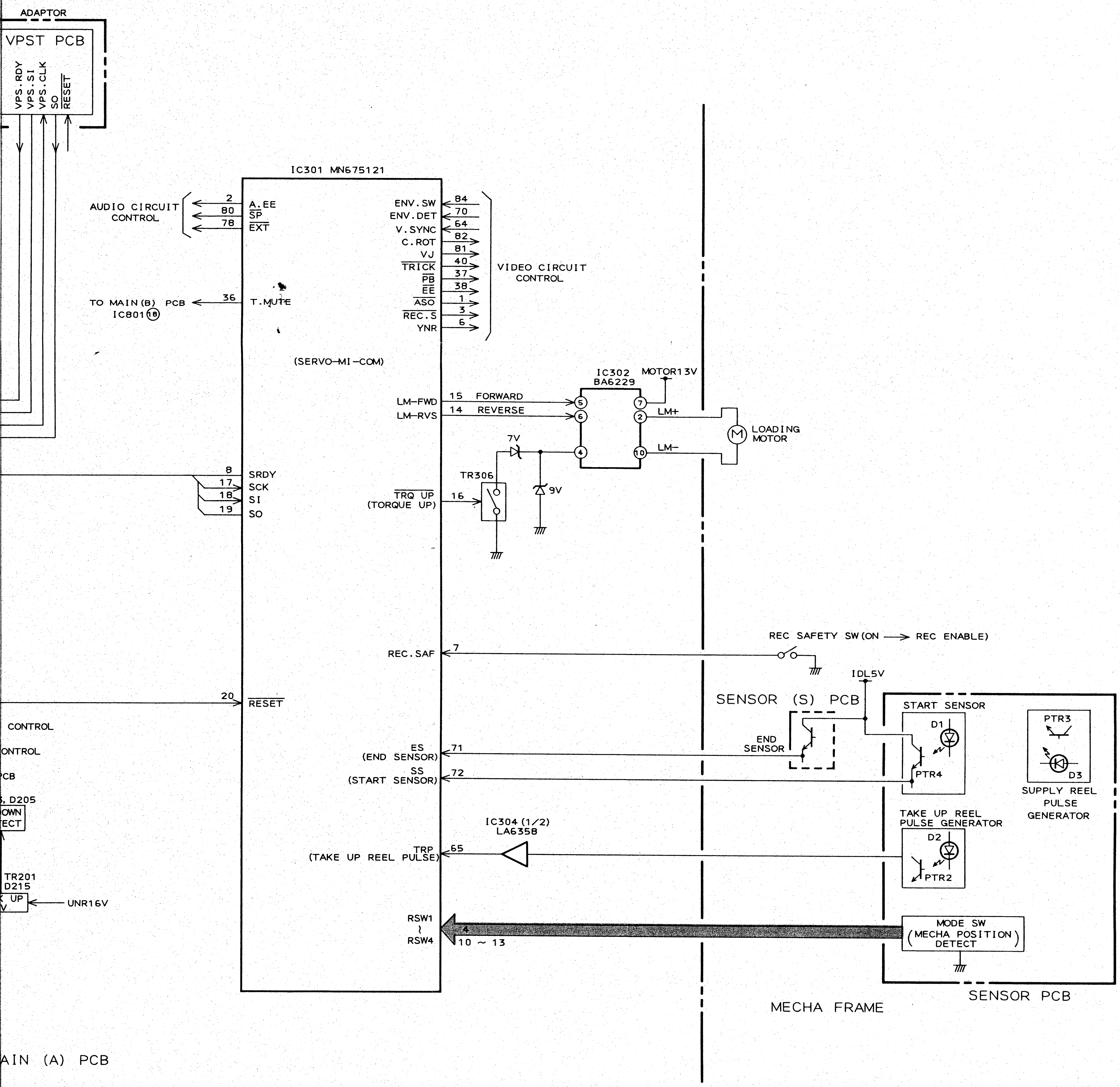
1. CONNECTION DIAGRAM 6
2. POWER SUPPLY 7
3. MAIN (A) (1/3) 8
4. MAIN (A) (2/3) 9
5. MAIN (A) (3/3) 10
6. MAIN (B) 12
7. PRE AMP 14
8. OPERATION (1) 16
9. VPS 18
10. VIF UNIT 20
11. ASO 22
12. RC-800 REMOTE CONTROL UNIT 25

III. INFORMATION OF ICs 26

Use the following schematic diagrams and PC boards together with the provided service manual.

6611 76 21

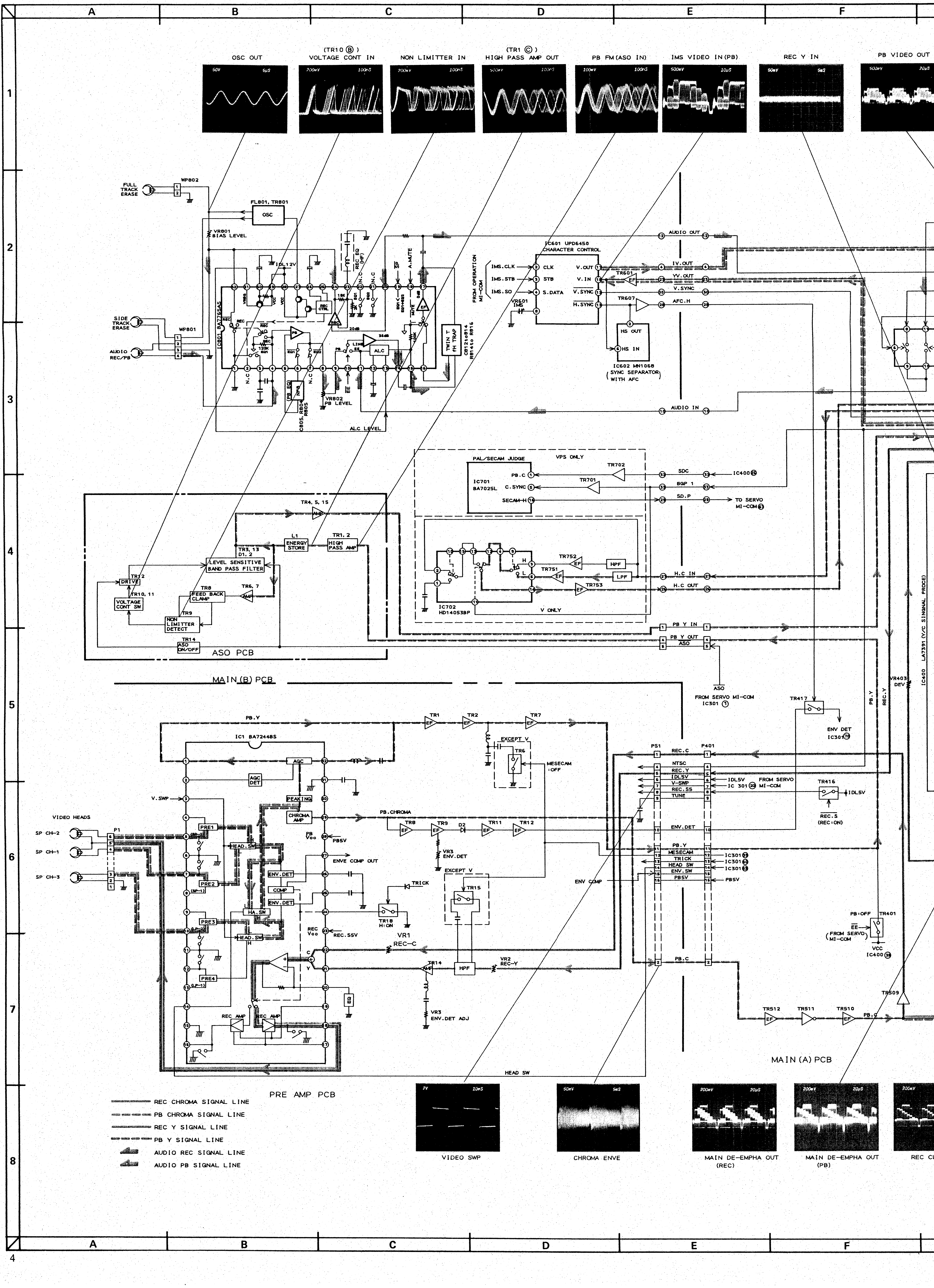

A
B
C
D
E
F
1
2
3
4
5
6
7
8
TUNER
V.TUNE
VH
VL
AFT
VIF UNIT
AFT
LPF
ADAPTOR
VPST PCB
VPS.RDY
VPS.SI
VPS.CLK
SO
RESET
TR3
CURR CONT
+37V
(FROM POWER SUPPLY)
IC1
TR2
TR17
TR18
IC1
μPD75217CW
29
PWM
AUDIO CIRCUIT CONTROL
-35V
56
V.LOAD
-4V
57
V.PRE
FLD BLANKING & PRE DRIVER VOLTAGES
AFT.L
AFT.H
11
12
FROM POWER SUPPLY
FL1
FL DISPLAY
F1
F2
8888
IG
11G
P1~P11
BAND A
53
TR4, 8
DRIVER
VH
TO MAIN (B) PCB
IC801⑱
T0
T10
FLD DIGIT CONTROL
40 ~ 50
BAND B
52
TR5, 9
DRIVER
VL
BAND C
51
TR7, 10
DRIVER
AFT
1~4, 54, 55, 58~63
STROBE DATA
S0
S11
FLD & KEY SEGMENT STROBE PULSE OUT
VPS.RDY
VPS.SI
VPS.CLK
SO
28
26
16
14
0 ~ 10
KEY MATRIX
KEY DATA
21 ~ 23
P60
P62
(OPERATION MI-COM)
SYS.CLK
SYS.SI
SYS.RDY
15
25
27
PH1
REMOCON SIG.DET
9
REMOCON
IC2 X24C01
E-P ROM
SCL
SDA
6
5
17
18
SCL
S.DATA
IDL5V
IC3 S-8053ALR
BACK UP 5V
2
BACK UP VOLTAGE DETECTOR
1
3
39
RESET
RESET
SW1
RESET OUT
35
TR1
ASO
D35
TV/VCR
37
RF CONVERTOR CONTROL
T.MUTE
36
TUNER MUTE CONTROL
H.SYNC
10
FROM VIDEO PCB
TR2
H:ON
20
LED
TR203, D205
P.DOWN DETECT
X1
30
31
X1
X2
MAIN CLOCK
P.DOWN
TR202
TR201
D215
BACK UP 5V
UNR16V
VDD
X2
33
34
XT1
XT2
SUB CLOCK (FOR TIMER)
C369
OPERATION PCB
MAIN (A) PCB



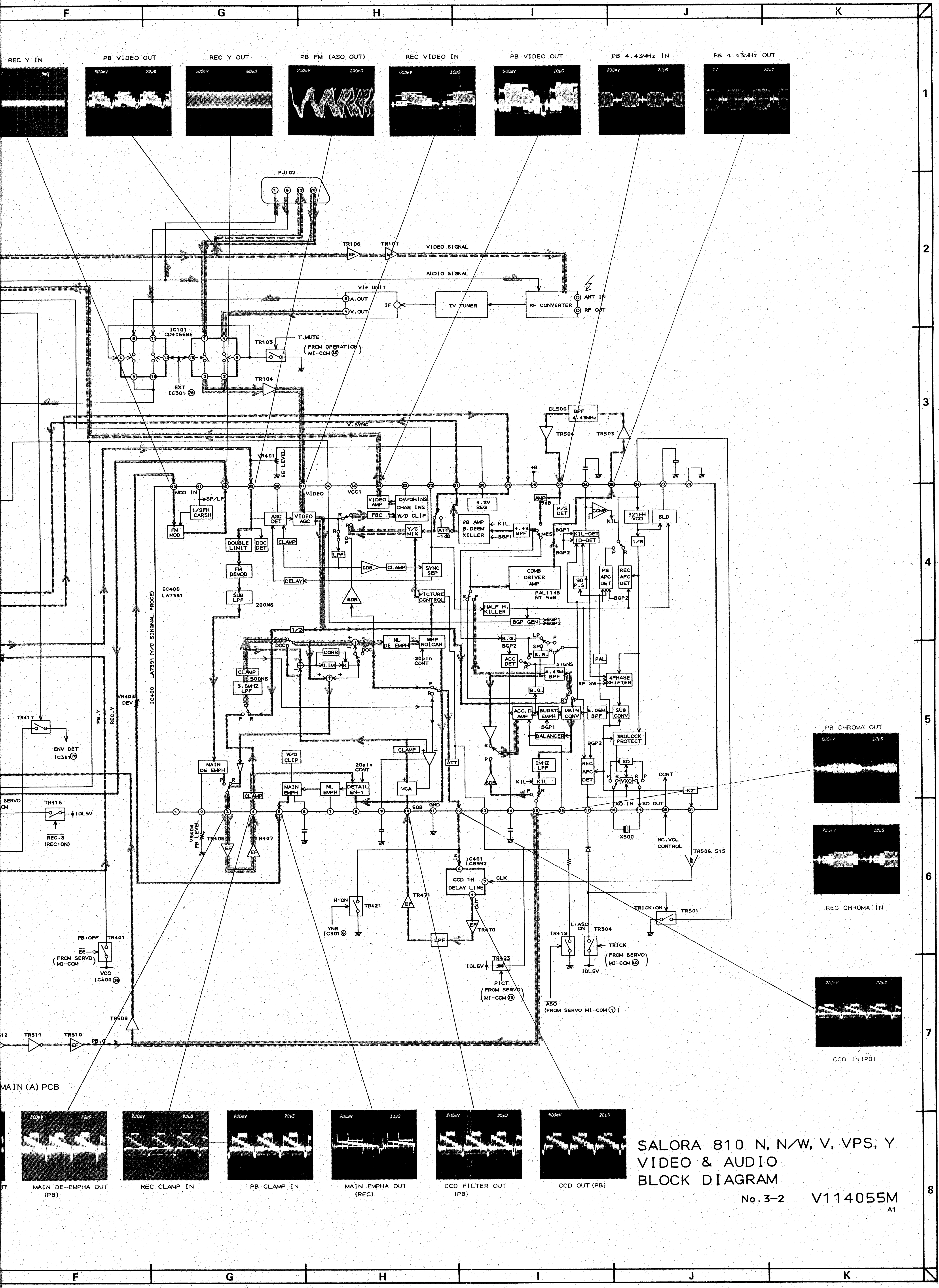
ADAPTOR
VPST PCB
VPS.RDY
VPS.SI
VPS.CLK
SO
RESET
IC301 MN675121
AUDIO CIRCUIT CONTROL
2
80
78
A.EE
SP
EXT
ENV.SW
ENV.DET
V.SYNC
C.ROT
VJ
TRICK
PB
EE
ASO
REC.S
YNR
84
70
64
82
81
40
37
38
1
3
6
VIDEO CIRCUIT CONTROL
TO MAIN (B) PCB IC801⑱
36
T.MUTE
(SERVO-MI-COM)
IC302 BA6229
MOTOR13V
LM-FWD
LM-RVS
15 FORWARD
14 REVERSE
⑤
⑥
⑦
②
④
⑩
LM+
LM-
LOADING MOTOR
M
7V
9V
TR306
TRQ UP (TORQUE UP)
16
8
17
18
19
SRDY
SCK
SI
SO
REC.SAF
7
REC SAFETY SW (ON ⟶ REC ENABLE)
IDL5V
20
RESET
CONTROL
ONTROL
CB
, D205
OWN
ECT
TR201
D215
UP
V
UNR16V
SENSOR (S) PCB
END SENSOR
ES (END SENSOR)
71
SS (START SENSOR)
72
START SENSOR
D1
PTR4
PTR3
D3
SUPPLY REEL PULSE GENERATOR
TAKE UP REEL PULSE GENERATOR
D2
PTR2
IC304 (1/2) LA6358
TRP (TAKE UP REEL PULSE)
65
RSW1 ~ RSW4
4
10 ~ 13
MODE SW (MECHA POSITION DETECT)
MECHA FRAME
SENSOR PCB
AIN (A) PCB

SALORA 810 N, N/W, V, VPS, Y
OPERATION & SYSCON
BLOCK DIAGRAM

No.3-1 V114054M
A2

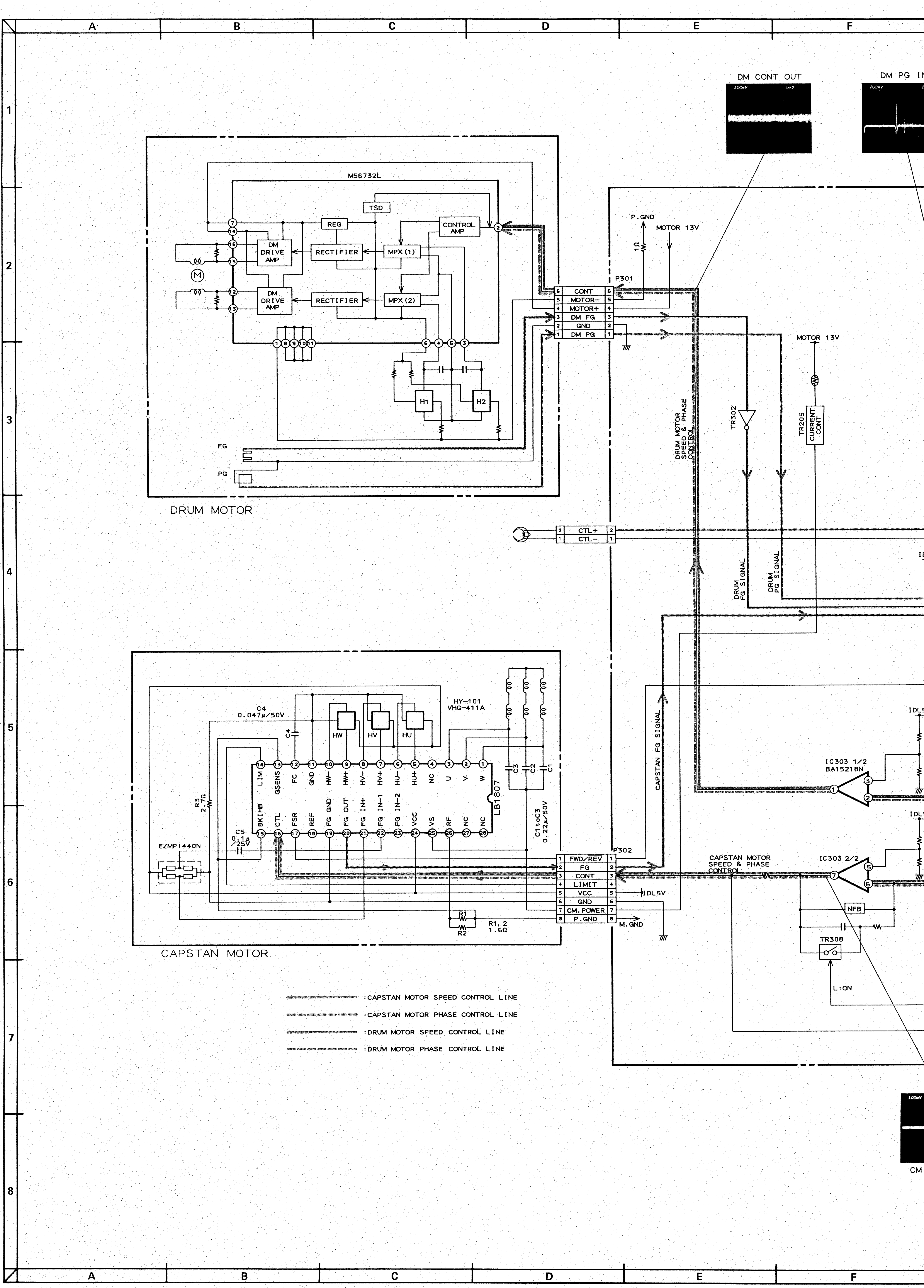


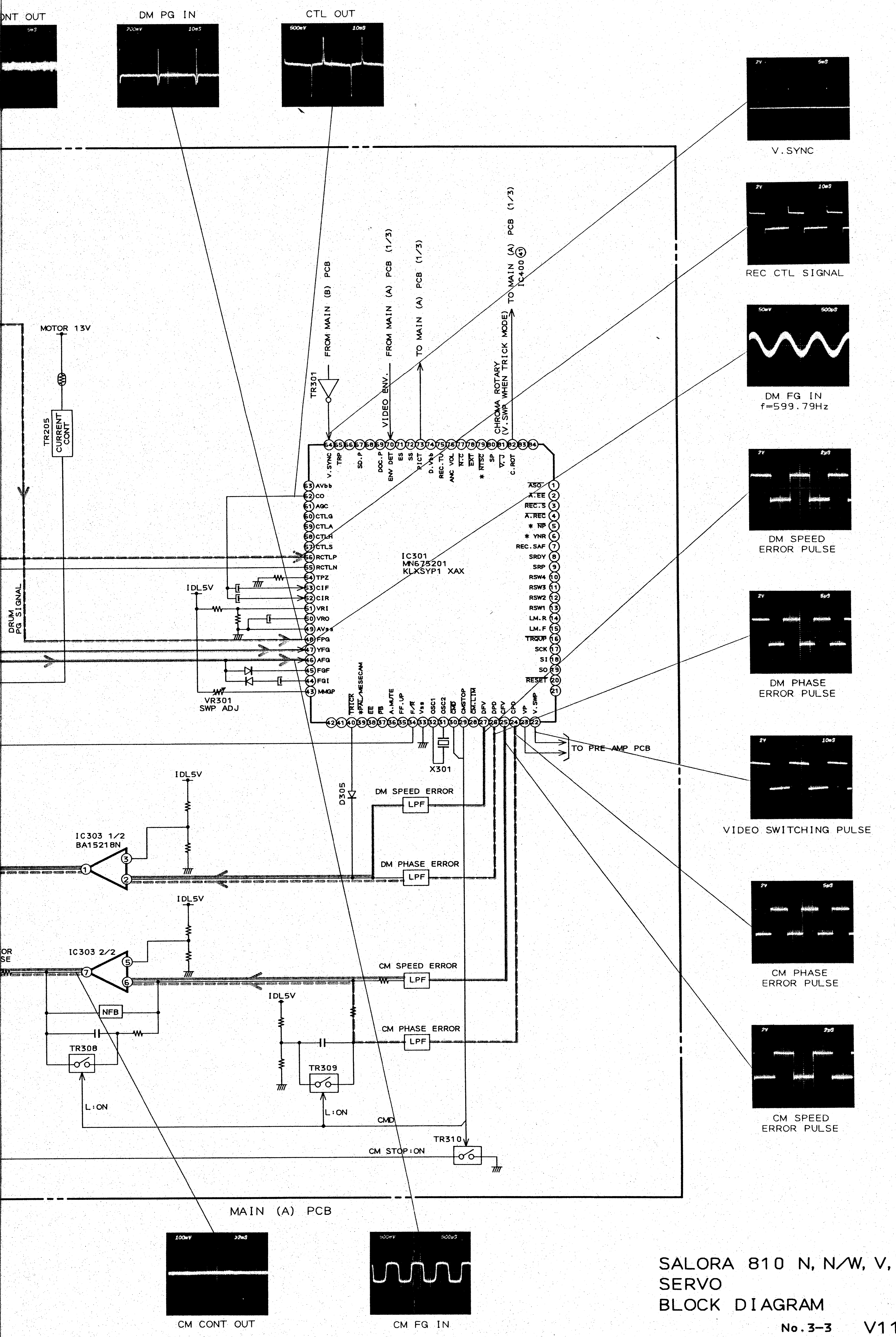
A
B
C
D
E
F
1
2
3
4
5
6
7
8
OSC OUT
(TR10 Ⓑ) VOLTAGE CONT IN
NON LIMITTER IN
(TR1 Ⓒ) HIGH PASS AMP OUT
PB FM (ASO IN)
IMS VIDEO IN (PB)
REC Y IN
PB VIDEO OUT
FULL TRACK ERASE
WP802
FL801, TR801
OSC
VR801 BIAS LEVEL
IDL12V
REC EQ (HF)
N.C
SP
A.MUTE
SIDE TRACK ERASE
WP801
AUDIO REC/PB
IC801 BA7765AS
REC
PB
EQ1
EQ2
120K
20dB
34dB
ALC
LINE
EE
TWIN T FH TRAP
C812 to 814 R814 to R816
PB EQ NFB
C805, R804 R805
VR802 PB LEVEL
ALC LEVEL
AUDIO OUT
AUDIO IN
FROM OPERATION MI-COM
IMS.CLK
IMS.STB
IMS.SO
IC601 UPD6450 CHARACTER CONTROL
CLK
STB
S.DATA
V.OUT
V.IN
V.SYNC
H.SYNC
VR601 IMS
TR601
EF
TR607
IV.OUT
YV.OUT
AFC.H
HS OUT
HS IN
IC602 MN1068 (SYNC SEPARATOR WITH AFC)
VPS ONLY
PAL/SECAM JUDGE
IC701 BA7025L
PB.C
C.SYNC
SECAM-H
TR702
TR701
SDC
BGP 1
SD.P
IC400⑮
TO SERVO MI-COM③
TR752
TR751
TR753
HPF
LPF
H.C IN
H.C OUT
IC702 HD14053BP
V ONLY
PB Y IN
PB Y OUT
ASO
FROM SERVO MI-COM IC301 ①
TR4, 5, 15
AMP
L1 ENERGY STORE
TR1, 2 HIGH PASS AMP
TR3, 13 D1, 2
LEVEL SENSITIVE BAND PASS FILTER
TR12 DRIVE
TR10, 11
VOLTAGE CONT SW
TR8 FEED BACK CLAMP
TR6, 7
TR9
NON LIMITTER DETECT
TR14 ASO ON/OFF
ASO PCB
MAIN (B) PCB
PB.Y
IC1 BA7244BS
AGC
AGC DET
PEAKING
CHROMA AMP
V.SWP
VIDEO HEADS
SP CH-2
SP CH-1
SP CH-3
P1
PRE1
PRE2
PRE3
PRE4
HEAD.SW
HA.SW
ENV.DET
COMP
PB Vcc
PB5V
ENVE COMP OUT
REC Vcc
REC.5SV
REC AMP
EQ
TR1
TR2
TR7
EF
EXCEPT V
TR6
MESECAM :OFF
PB.CHROMA
TR8
TR9
D2
TR11
TR12
VR3 ENV.DET
TRICK
TR18 H:ON
TR15
VR1 REC-C
TR14
AMP
HPF
VR2 REC-Y
VR3 ENV.DET ADJ
ENV COMP
HEAD SW
PS1
P401
REC.C
NTSC
REC.Y
IDL5V
V-SWP
REC.S5
TUNE
ENV.DET
PB.Y
MESECAM
TRICK
HEAD SW
ENV.SW
PB5V
PB.C
IDL5V
IC 301㉜
FROM SERVO MI-COM
IC301
TR416
REC.S (REC:ON)
TR417
ENV DET IC301㊷
PB:OFF
TR401
EE
(FROM SERVO MI-COM)
VCC IC400㊳
TR509
TR512
TR511
TR510
PB.C
VR403 DEV
REC.Y
PB.Y
IC400 LA7391 (Y/C SINGNAL PROCE)
MAIN (A) PCB
PRE AMP PCB
REC CHROMA SIGNAL LINE
PB CHROMA SIGNAL LINE
REC Y SIGNAL LINE
PB Y SIGNAL LINE
AUDIO REC SIGNAL LINE
AUDIO PB SIGNAL LINE
VIDEO SWP
CHROMA ENVE
MAIN DE-EMPHA OUT (REC)
MAIN DE-EMPHA OUT (PB)
REC C


F
G
H
I
J
K
1
2
3
4
5
6
7
8
REC Y IN
PB VIDEO OUT
REC Y OUT
PB FM (ASO OUT)
REC VIDEO IN
PB VIDEO OUT
PB 4.43MHz IN
PB 4.43MHz OUT
PJ102
TR106
TR107
EF
VIDEO SIGNAL
AUDIO SIGNAL
VIF UNIT
A.OUT
V.OUT
IF
TV TUNER
RF CONVERTER
ANT IN
RF OUT
IC101
CD4066BE
TR103
T.MUTE
(FROM OPERATION MI-COM ㊻)
TR104
EXT
IC301 ㉘
V.SYNC
DL500
BPF 4.43MHz
TR504
TR503
VR401
EE LEVEL
+8
MOD IN
SP/LP
1/2FH CARSH
FM MOD
VIDEO
VCC1
VIDEO AMP
QV/QHINS CHAR INS
W/D CLIP
FBC
AGC DET
VIDEO AGC
DOUBLE LIMIT
DOC DET
CLAMP
FM DEMOD
SUB LPF
200NS
Y/C MIX
ATT
-1dB
4.2V REG
PB AMP B.DEEM KILLER
KIL
BGP1
4.43 BPF
AMP 9dB
P/S DET
COMP
KIL
MES
KIL-DET
ID-DET
BGP2
321FH VCO
SLD
1/8
LPF
6D8
CLAMP
SYNC SEP
DELAY
6DB
PICTURE CONTROL
COMB DRIVER AMP
PAL 11dB
NT 5dB
90° P.S
PB APC DET
REC AFC DET
HALF H. KILLER
BGP GEN
IC400
LA7391
IC400 LA7391 (Y/C SINGNAL PROCE)
1/2
DOC
CORR
LIM
K
NL DE EMPH
WHP NOICAN
20pin CONT
B.G.
LP
SP
ACC DET
375NS
4.43M BPF
PAL
4PHASE SHIFTER
RF SW
CLAMP
500NS
3.5MHZ LPF
VR403 DEV
PB.Y
REC.Y
TR417
ENV DET
IC301 ㉖
MAIN DE EMPH
W/D CLIP
20pin CONT
MAIN EMPH
NL EMPH
DETAIL EN-1
VCA
ATT
ACC, D AMP
BURST EMPH
MAIN CONV
5.06M BPF
SUB CONV
BGP1
BALANCER
3RDLOCK PROTECT
1MHZ LPF
KIL
REC APC DET
XO
VXO
CONT
X2
XO IN
XO OUT
X500
NC.VOL CONTROL
TR506, 515
SERVO
TR416
IDL5V
REC.S
(REC:ON)
VR404
PB LEVEL
TR406
TR407
GND
IC401
LC8992
CCD 1H DELAY LINE
CLK
IN
OUT
TR471
TR470
H:ON
TR421
YNR
IC301 ⑥
LPF
TRICK:ON
TR501
L:ASO ON
TR419
TR304
TRICK
(FROM SERVO MI-COM ㊵)
IDL5V
TR423
PICT
(FROM SERVO MI-COM ㉓)
ASO
(FROM SERVO MI-COM ①)
PB:OFF
TR401
EE
(FROM SERVO MI-COM)
VCC
IC400 ㊳
TR509
TR511
TR510
PB.C
MAIN (A) PCB
PB CHROMA OUT
REC CHROMA IN
CCD IN (PB)
MAIN DE-EMPHA OUT (PB)
REC CLAMP IN
PB CLAMP IN
MAIN EMPHA OUT (REC)
CCD FILTER OUT (PB)
CCD OUT (PB)

SALORA 810 N, N/W, V, VPS, Y
VIDEO & AUDIO
BLOCK DIAGRAM

No.3-2 V114055M
A1

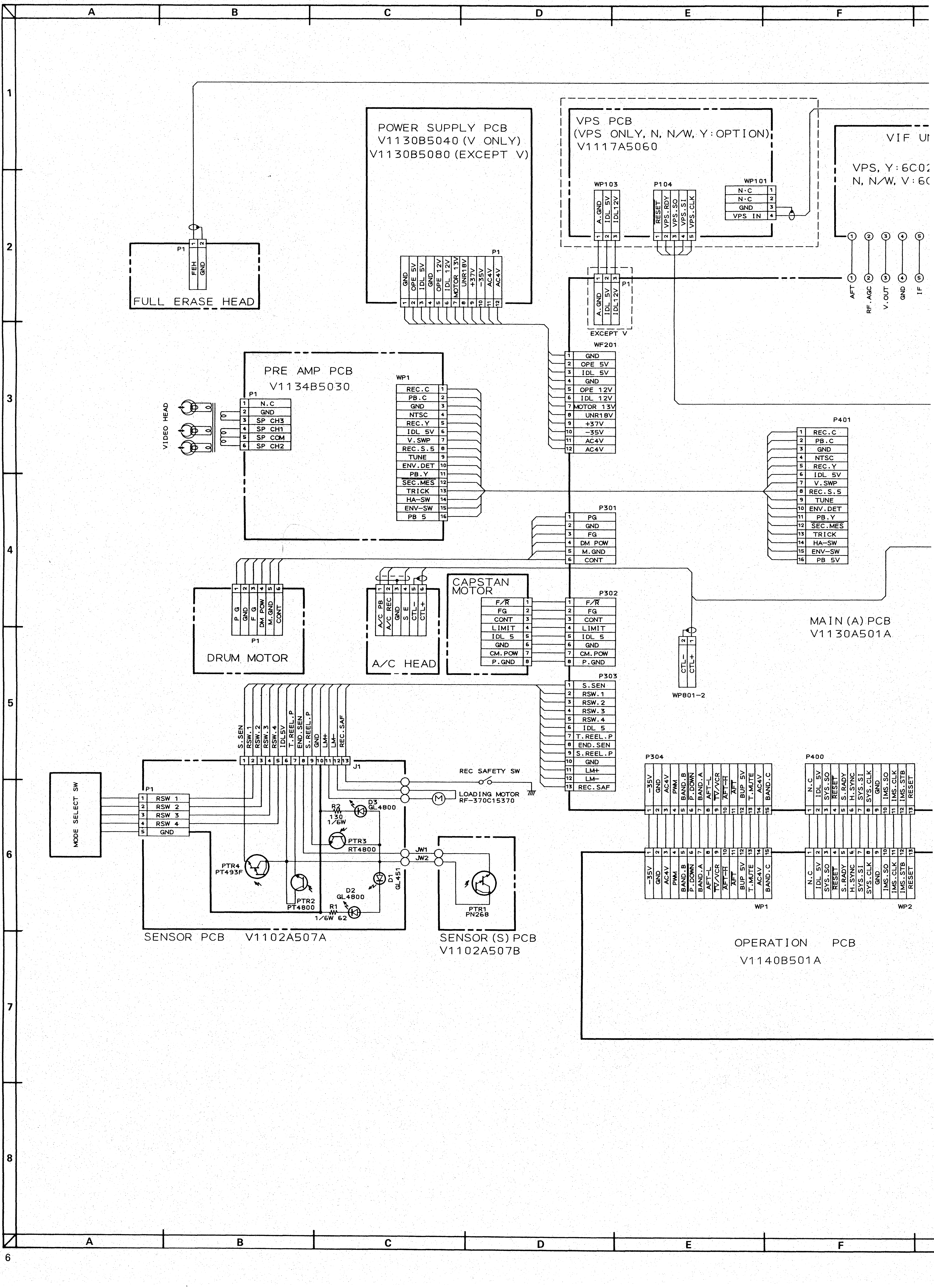

A
B
C
D
E
F
1
2
3
4
5
6
7
8
DM CONT OUT
100mV
5mS
DM PG IN
200mV
M56732L
TSD
REG
CONTROL AMP
DM DRIVE AMP
RECTIFIER
MPX (1)
DM DRIVE AMP
RECTIFIER
MPX (2)
H1
H2
FG
PG
DRUM MOTOR
P.GND
1Ω
MOTOR 13V
P301
6 CONT 6
5 MOTOR− 5
4 MOTOR+ 4
3 DM FG 3
2 GND 2
1 DM PG 1
MOTOR 13V
DRUM MOTOR SPEED & PHASE CONTROL
TR302
TR205
CURRENT CONT
2 CTL+ 2
1 CTL− 1
DRUM FG SIGNAL
DRUM PG SIGNAL
C4 0.047μ/50V
C4
HW
HV
HU
HY−101 VHG−411A
LIM
GSENS
FC
GND
HW−
HW+
HV−
HV+
HU−
HU+
NC
U
V
W
BKIHB
CTL
FSR
REF
FG GND
FG OUT
FG IN+
FG IN−1
FG IN−2
VCC
VS
RF
NC
NC
LB1807
C3
C2
C1
C1toC3 0.22μ/50V
R3 2.7Ω
C5 0.1μ /25V
EZMPI440N
R1
R2
R1, 2 1.6Ω
P302
1 FWD/REV 1
2 FG 2
3 CONT 3
4 LIMIT 4
5 VCC 5
6 GND 6
7 CM.POWER 7
8 P.GND 8
IDL5V
M.GND
CAPSTAN MOTOR
CAPSTAN FG SIGNAL
IC303 1/2 BA15218N
IDL5
IC303 2/2
CAPSTAN MOTOR SPEED & PHASE CONTROL
NFB
TR308
L:ON
100mV
CM
:CAPSTAN MOTOR SPEED CONTROL LINE
:CAPSTAN MOTOR PHASE CONTROL LINE
:DRUM MOTOR SPEED CONTROL LINE
:DRUM MOTOR PHASE CONTROL LINE

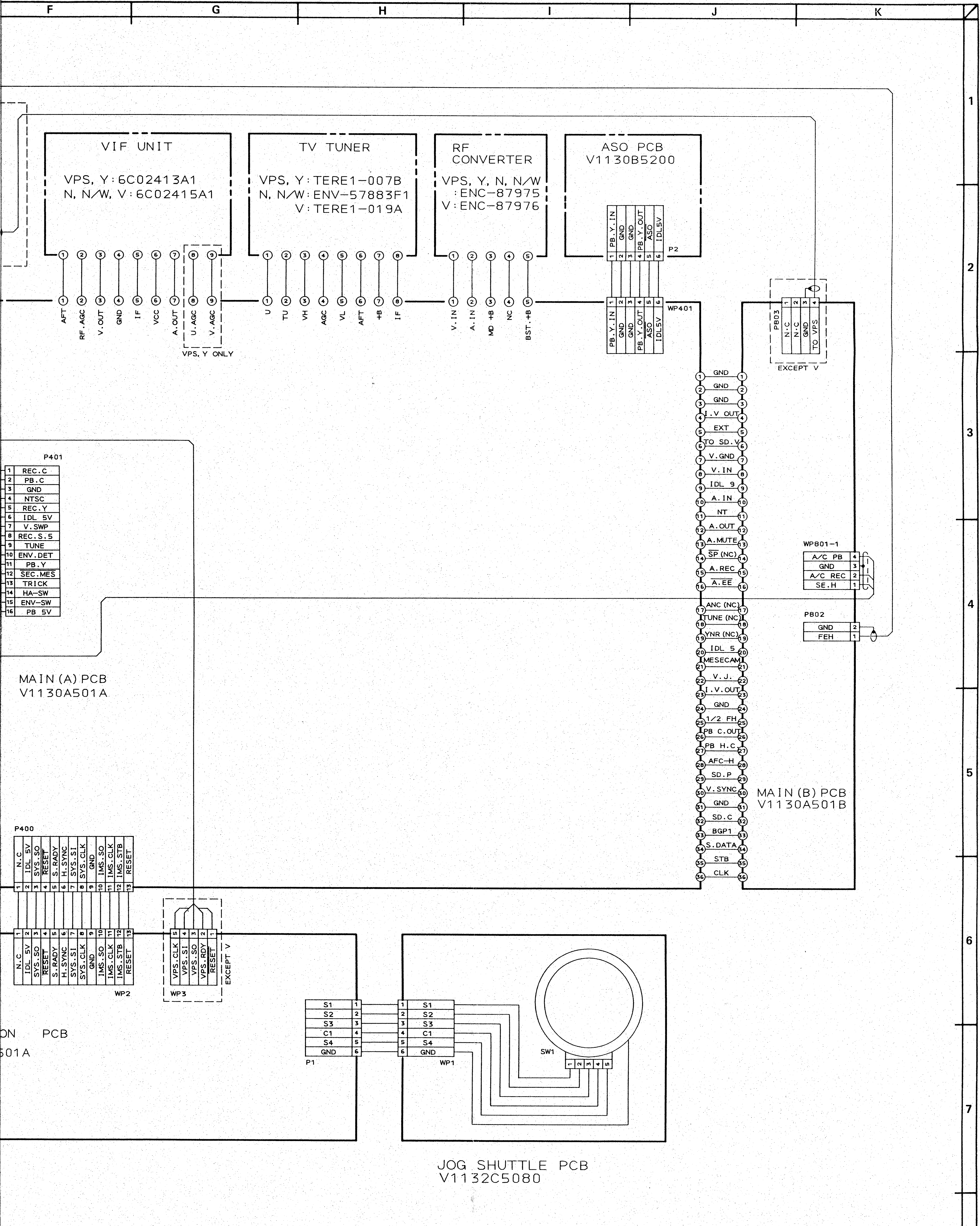


F
G
H
I
J
K
1
2
3
4
5
6
7
8
ONT OUT
DM PG IN
CTL OUT
V.SYNC
REC CTL SIGNAL
DM FG IN
f=599.79Hz
DM SPEED ERROR PULSE
DM PHASE ERROR PULSE
VIDEO SWITCHING PULSE
CM PHASE ERROR PULSE
CM SPEED ERROR PULSE
CM CONT OUT
CM FG IN
MOTOR 13V
TR205
CURRENT CONT
DRUM PG SIGNAL
IDL5V
VR301
SWP ADJ
TR301
FROM MAIN (B) PCB
VIDEO ENV.
FROM MAIN (A) PCB (1/3)
TO MAIN (A) PCB (1/3)
CHROMA ROTARY
(V.SWA WHEN TRICK MODE)
TO MAIN (A) PCB (1/3)
IC400 ㊶
IC301
MN675201
KLXSYP1 XAX
V.SYNC
TRP
SD.P
DOC.P
ENV DET
ES
SS
PICT
D.Vss
REC.TV
ANC VOL
N/C
EXT
* NTSC
SP
V/3
C.ROT
AVdd
CO
AGC
CTLG
CTLA
CTLH
CTLS
RCTLP
RCTLN
TPZ
CIF
CIR
VRI
VRO
AVss
FPG
YFG
AFG
FGF
FGI
MMGP
ASO
A.EE
REC.S
A.REC
* NP
* YNR
REC.SAF
SRDY
SRP
RSW4
RSW3
RSW2
RSW1
LM.R
LM.F
TRQUP
SCK
SI
SO
RESET
TRTCR
*PAL/MESECAM
EE
PB
A.MUTE
FF.UP
F/R
Vss
OSC1
OSC2
CMD
CMSTOP
CM.LIM
DFV
DPO
CFV
CPO
VP
V.SWP
X301
TO PRE AMP PCB
D305
DM SPEED ERROR
DM PHASE ERROR
CM SPEED ERROR
CM PHASE ERROR
LPF
IC303 1/2
BA15218N
IC303 2/2
NFB
TR308
TR309
TR310
L:ON
CMD
CM STOP:ON
MAIN (A) PCB

SALORA 810 N, N/W, V, VPS, Y
SERVO
BLOCK DIAGRAM

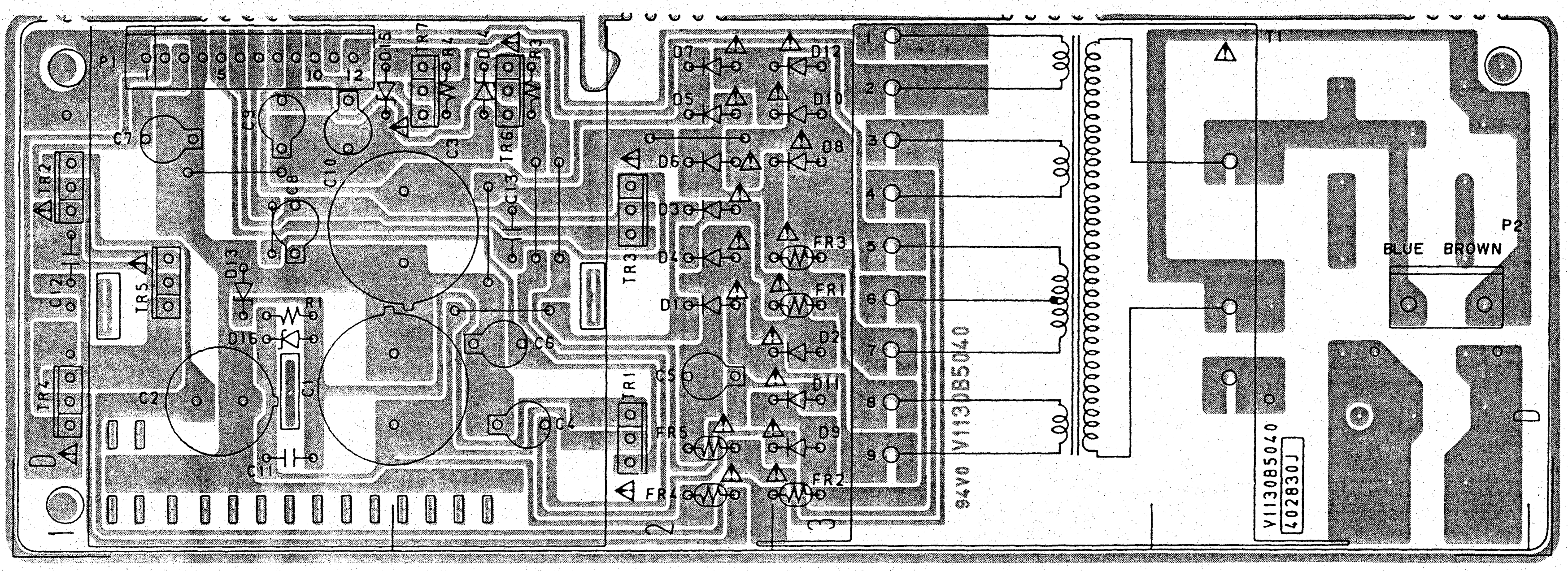
No.3-3 V114056M
A0


A
B
C
D
E
F
1
2
3
4
5
6
7
8
POWER SUPPLY PCB
V1130B5040 (V ONLY)
V1130B5080 (EXCEPT V)
P1
GND
OPE 5V
IDL 5V
GND
OPE 12V
IDL 12V
MOTOR 13V
UNR18V
+37V
-35V
AC4V
AC4V
VPS PCB
(VPS ONLY, N, N/W, Y: OPTION)
V1117A5060
WP103
A.GND
IDL 5V
IDL12V
P104
RESET
VPS.RDY
VPS.SO
VPS.SI
VPS.CLK
WP101
N·C
N·C
GND
VPS IN
VIF UI
VPS, Y: 6C0
N, N/W, V: 6C
AFT
RF.AGC
V.OUT
GND
IF
EXCEPT V
WF201
FULL ERASE HEAD
FEH
GND
PRE AMP PCB
V1134B5030
VIDEO HEAD
N.C
SP CH3
SP CH1
SP COM
SP CH2
WP1
REC.C
PB.C
NTSC
REC.Y
V.SWP
REC.S.5
TUNE
ENV.DET
PB.Y
SEC.MES
TRICK
HA-SW
ENV-SW
PB 5
P401
PB 5V
P301
PG
FG
DM POW
M.GND
CONT
DRUM MOTOR
P G
F G
A/C PB
A/C REC
S E
CTL-
CTL+
A/C HEAD
CAPSTAN MOTOR
F/R
LIMIT
IDL 5
CM.POW
P.GND
P302
WP801-2
MAIN (A) PCB
V1130A501A
P303
S.SEN
RSW.1
RSW.2
RSW.3
RSW.4
T.REEL.P
END.SEN
S.REEL.P
LM+
LM-
REC.SAF
IDL5V
J1
REC SAFETY SW
LOADING MOTOR
RF-370C15370
MODE SELECT SW
P1
RSW 1
RSW 2
RSW 3
RSW 4
R2
130
1/6W
D3
GL4800
PTR3
RT4800
PTR4
PT493F
PTR2
PT4800
D2
GL4800
R1
1/6W 62
D1
GL451
JW1
JW2
PTR1
PN268
SENSOR PCB V1102A507A
SENSOR (S) PCB
V1102A507B
P304
-35V
AC4V
PWM
BAND.B
P.DOWN
BAND.A
AFT-L
TV/VCR
AFT-R
AFT
BUP 5V
T.MUTE
BAND.C
P400
N.C
IDL 5V
SYS.SO
RESET
S.RADY
H.SYNC
SYS.SI
SYS.CLK
IMS.SO
IMS.CLK
IMS.STB
WP1
WP2
OPERATION PCB
V1140B501A


F
G
H
I
J
K
1
2
3
4
5
6
7
VIF UNIT
VPS, Y : 6C02413A1
N, N/W, V : 6C02415A1
AFT
RF.AGC
V.OUT
GND
IF
VCC
A.OUT
U.AGC
V.AGC
VPS, Y ONLY
TV TUNER
VPS, Y : TERE1-007B
N, N/W : ENV-57883F1
V : TERE1-019A
U
TU
VH
AGC
VL
AFT
+B
IF
RF
CONVERTER
VPS, Y, N, N/W
: ENC-87975
V : ENC-87976
V.IN
A.IN
MD +B
NC
BST.+B
ASO PCB
V1130B5200
PB.Y.IN
GND
GND
PB.Y.OUT
ASO
IDL5V
P2
WP401
P803
N.C
N.C
GND
TO VPS
EXCEPT V
GND
GND
GND
I.V OUT
EXT
TO SD.V
V.GND
V.IN
IDL 9
A.IN
NT
A.OUT
A.MUTE
SP (NC)
A.REC
A.EE
ANC (NC)
TUNE (NC)
YNR (NC)
IDL 5
MESECAM
V.J.
I.V.OUT
GND
1/2 FH
PB C.OUT
PB H.C
AFC-H
SD.P
V.SYNC
GND
SD.C
BGP1
S.DATA
STB
CLK
MAIN (B) PCB
V1130A501B
WP801-1
A/C PB
GND
A/C REC
SE.H
P802
GND
FEH
P401
REC.C
PB.C
GND
NTSC
REC.Y
IDL 5V
V.SWP
REC.S.5
TUNE
ENV.DET
PB.Y
SEC.MES
TRICK
HA-SW
ENV-SW
PB 5V
MAIN (A) PCB
V1130A501A
P400
N.C
IDL 5V
SYS.SO
RESET
S.RADY
H.SYNC
SYS.SI
SYS.CLK
GND
IMS.SO
IMS.CLK
IMS.STB
RESET
WP2
VPS.CLK
VPS.SI
VPS.SO
VPS.RDY
RESET
EXCEPT V
WP3
ON PCB
501A
S1
S2
S3
C1
S4
GND
P1
WP1
SW1
JOG SHUTTLE PCB
V1132C5080

SALORA 810 N, N/W, V, VPS, Y
CONNECTION DIAGRAM
No.12-1 V114013M
A1

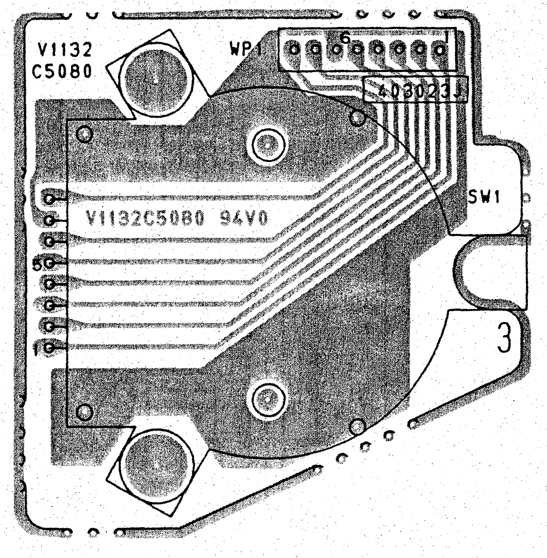
8
F
G
H
I
J
K


P1
1
5
10
12
C7
C9
C8
C10
C13
C3
C5
C4
C6
C1
C2
C11
C12
TR2
TR5
TR6
TR3
TR1
TR4
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D15
D16
R1
R7
FR1
FR2
FR3
FR4
FR5
T1
P2
BLUE
BROWN
V1130B5040
94V0
402830J

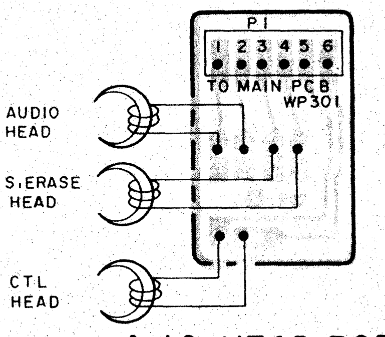
POWER SUPPLY PCB V1130B5040 (V ONLY)

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR
REPLACE SAFETY CRITICAL COMPONENTS ONLY W
RECOMMENDED PARTS

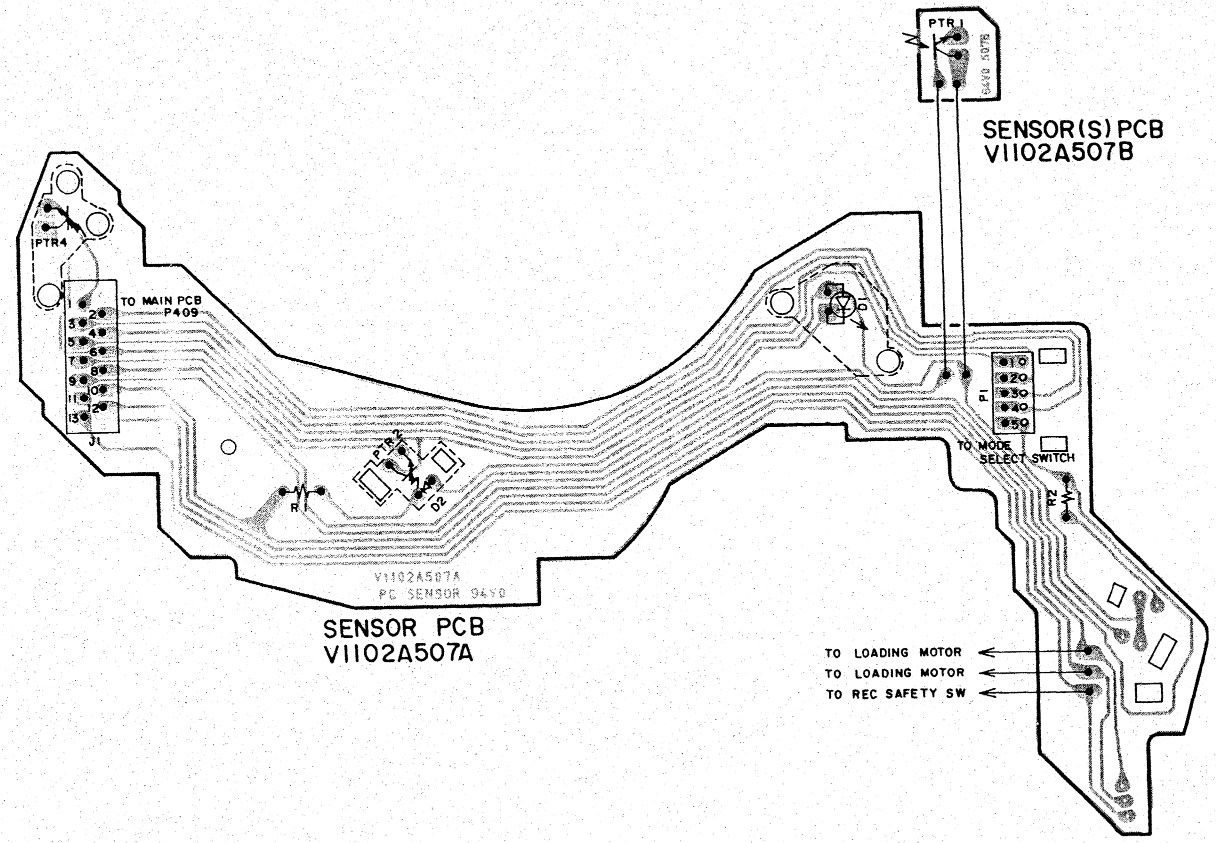
AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'AP
NE REMPLACER QUE DES PIÈCES RECOMMANDEES


V1132
C5080
WP1
6
403023J
V1132C5080 94V0
SW1
5
1
3

JOG SHUTTLE PCB V1132C5080

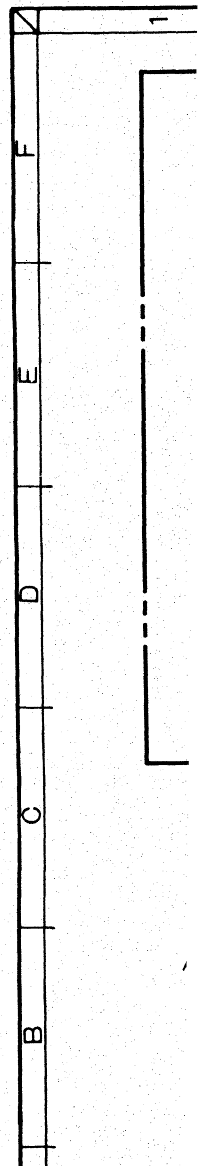

P1
1 2 3 4 5 6
TO MAIN PCB
WP301
AUDIO
HEAD
S.ERASE
HEAD
CTL
HEAD

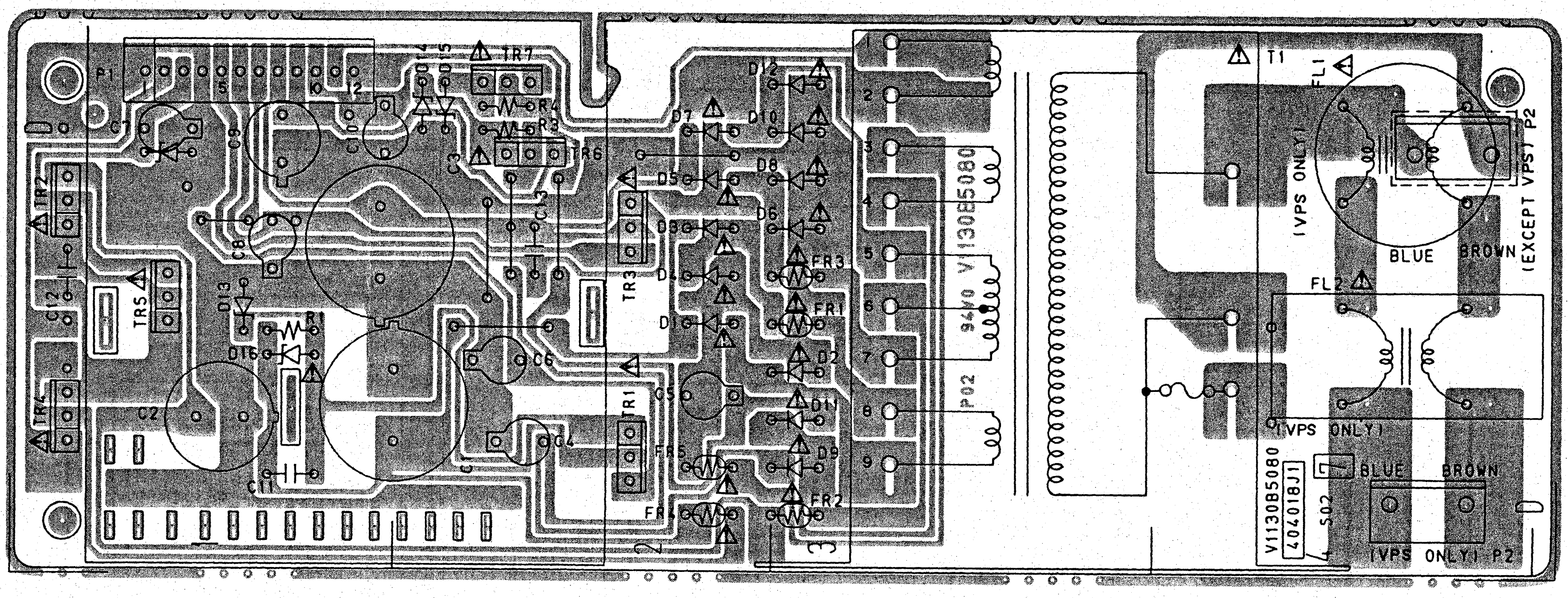
A/C HEAD PCB
V1102B5120J1


PTR4
TO MAIN PCB
P409
J1
R1
PTR2
D2
V1102A507A
PC SENSOR 94V0
PTR1
94V0 507B
P1
TO MODE SELECT SWITCH
R2
TO LOADING MOTOR
TO LOADING MOTOR
TO REC SAFETY SW

SENSOR(S) PCB
V1102A507B

SENSOR PCB
V1102A507A

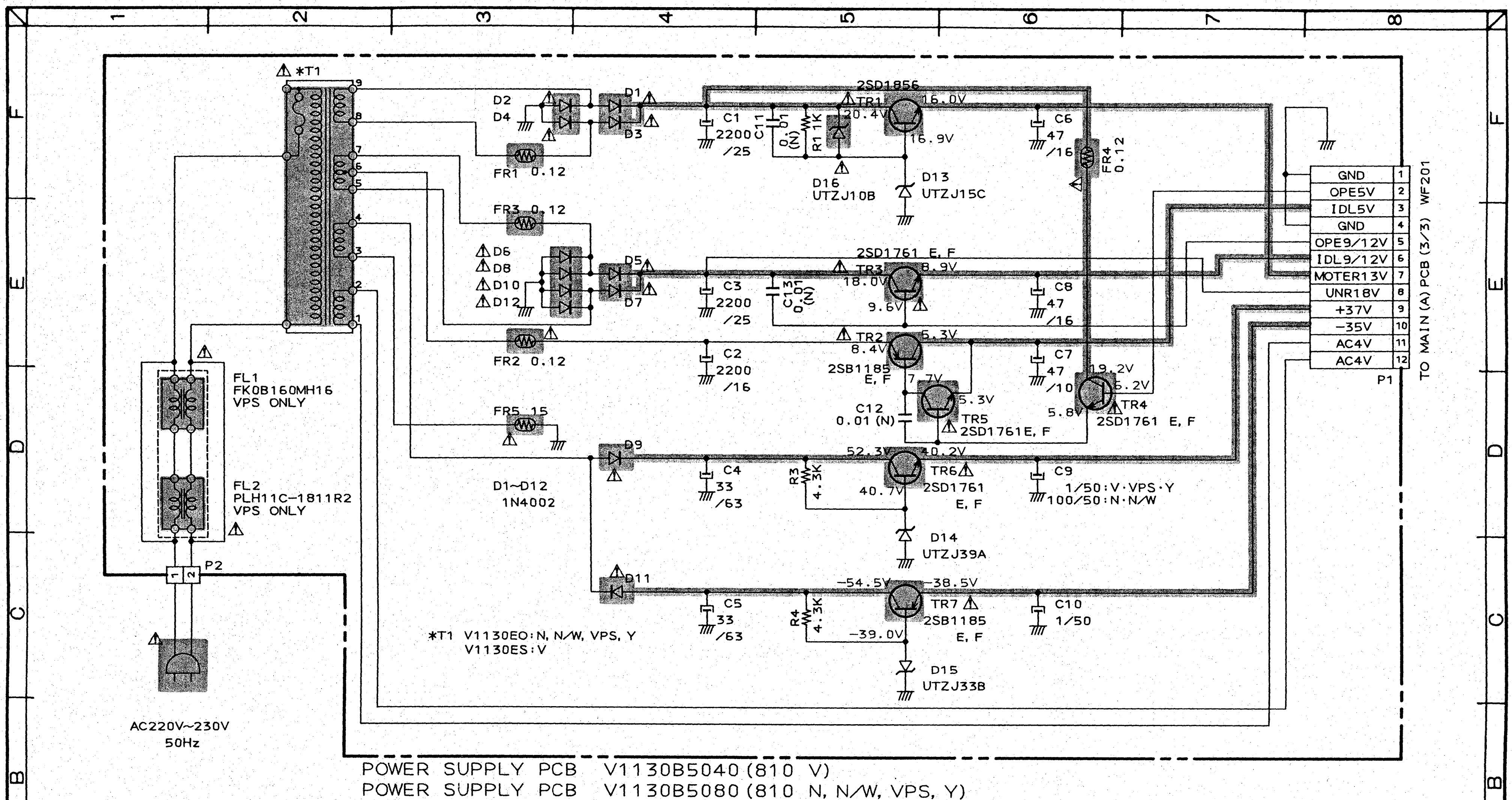



P1
TR7
TR6
TR2
TR5
TR4
TR3
TR1
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
C13
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16
R1
R3
R4
FR1
FR2
FR3
FR4
FR5
T1
FL1
FL2
(VPS ONLY)
BLUE
BROWN
(EXCEPT VPS) P2
(VPS ONLY) P2
V1130B5080
404018J1
S02
9410 V1130B5080
P02

POWER SUPPLY PCB VII30B5080JI (EXCEPT V)

ATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY,
E SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
IENDED PARTS

ΔIL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
AINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
PLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT


1
2
3
4
5
6
7
8
F
E
D
C
B
A
⚠ *T1
D2
D4
D1
D3
FR1 0.12
FR3 0.12
⚠D6
⚠D8
⚠D10
⚠D12
D5
D7
FR2 0.12
FR5 15
D9
D11
D1~D12
1N4002
C1
2200
/25
C11
0
(N)
R1 1K
D16
UTZJ10B
2SD1856
TR1
20.4V
16.0V
16.9V
D13
UTZJ15C
C6
47
/16
FR4
0.12
2SD1761 E, F
TR3
18.0V
8.9V
9.6V
C3
2200
/25
C13
0.01
(N)
C8
47
/16
C2
2200
/16
TR2
8.4V
5.3V
2SB1185
E, F
C7
47
/10
7V
5.3V
C12
0.01 (N)
TR5
2SD1761E, F
5.8V
19.2V
6.2V
TR4
2SD1761 E, F
C4
33
/63
R3
4.3K
52.3V
40.2V
40.7V
TR6
2SD1761
E, F
C9
1/50:V·VPS·Y
100/50:N·N/W
D14
UTZJ39A
C5
33
/63
R4
4.3K
−54.5V
−38.5V
−39.0V
TR7
2SB1185
E, F
C10
1/50
D15
UTZJ33B
FL1
FK0B160MH16
VPS ONLY
FL2
PLH11C-1811R2
VPS ONLY
P2
AC220V~230V
50Hz
*T1 V1130EO:N, N/W, VPS, Y
V1130ES:V
GND 1
OPE5V 2
IDL5V 3
GND 4
OPE9/12V 5
IDL9/12V 6
MOTER13V 7
UNR18V 8
+37V 9
−35V 10
AC4V 11
AC4V 12
P1
TO MAIN (A) PCB (3/3) WF201

POWER SUPPLY PCB V1130B5040 (810 V)
POWER SUPPLY PCB V1130B5080 (810 N, N/W, VPS, Y)

WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER' S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L' APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

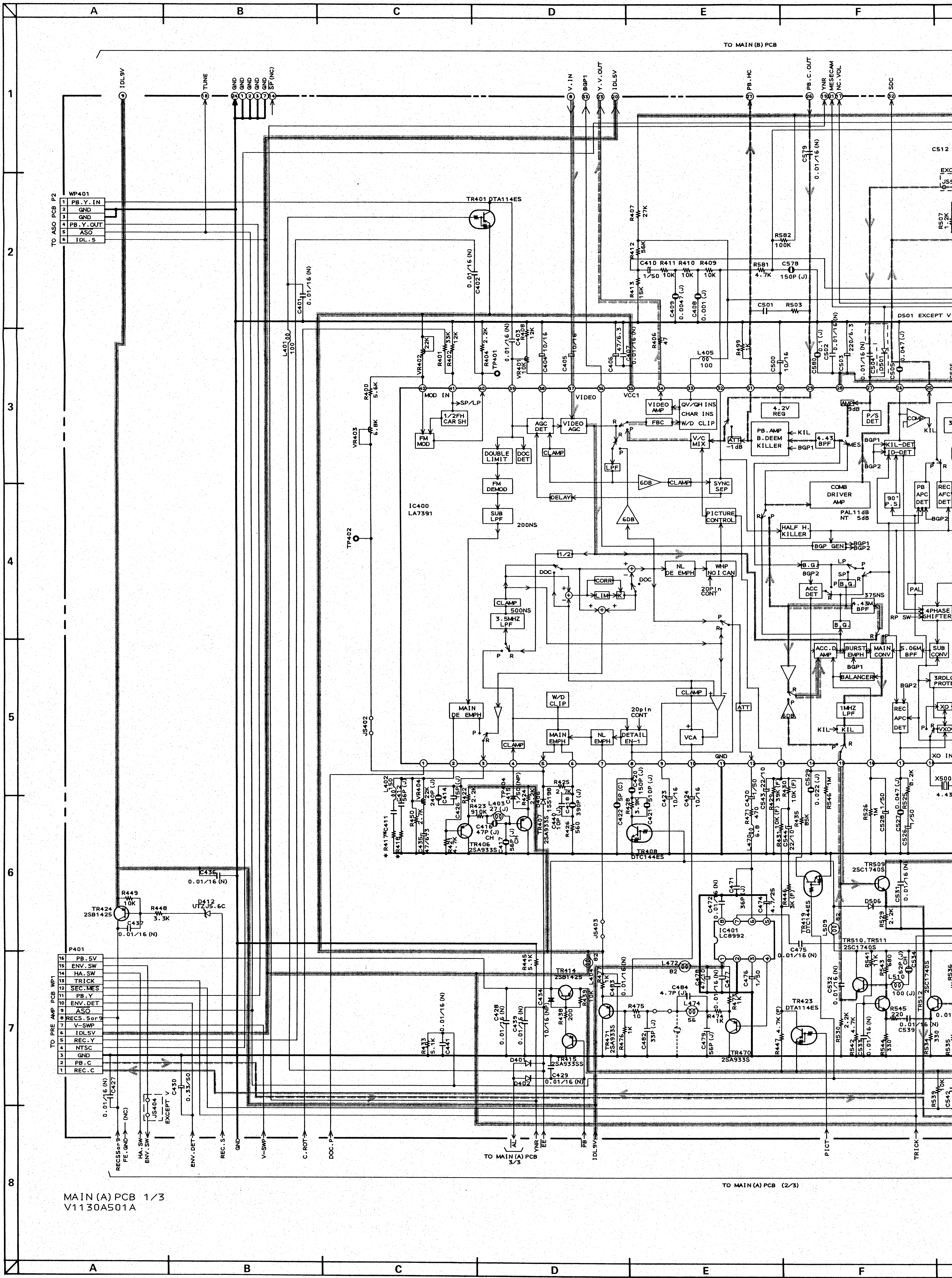
INDICATED VOLTAGES WERE MEASURED IN STOP MODE.

▬ :B (POWER SUPPLY) LINE

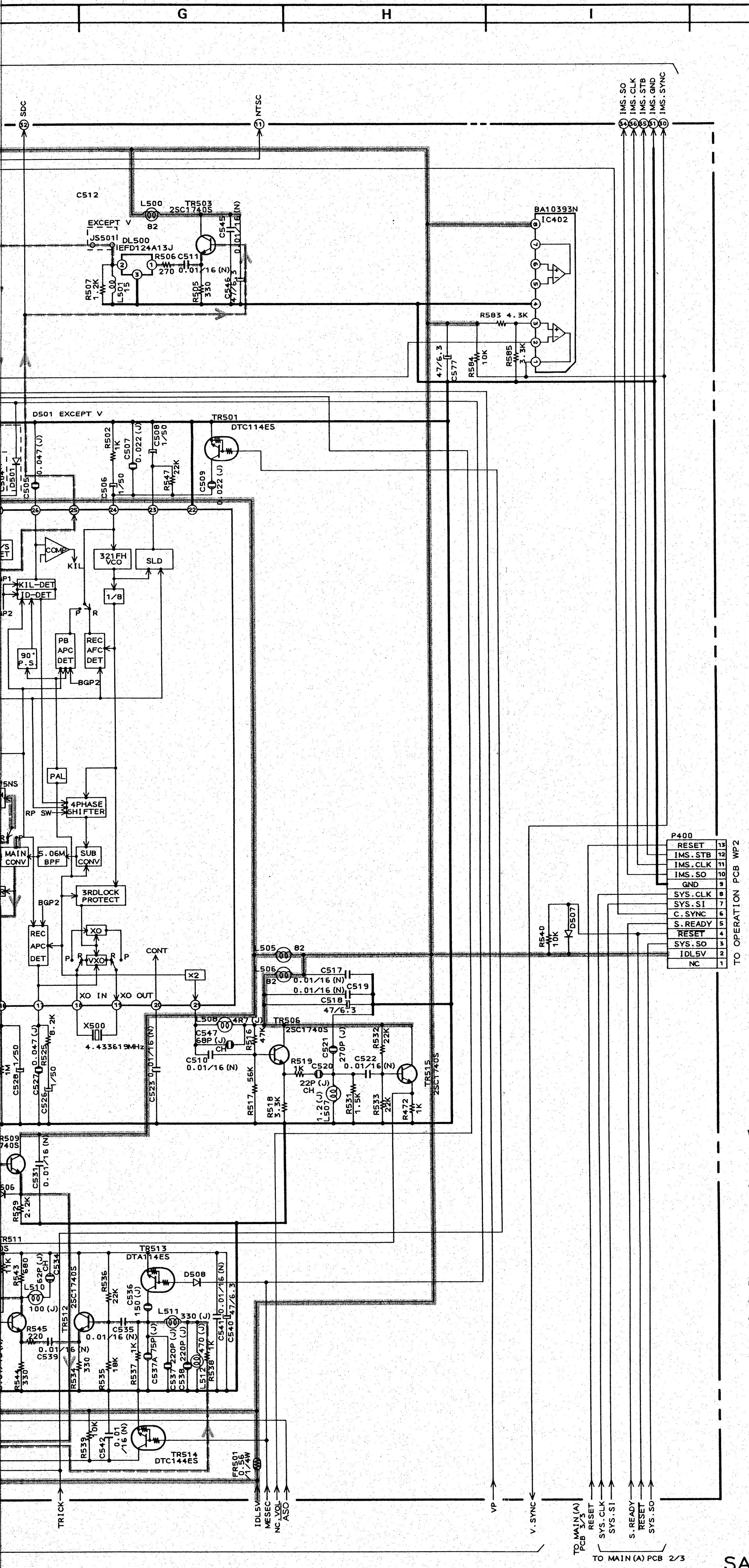
NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN μF 50 WV (M)
ALL FUSE RESISTORS IN OHMS 1/4W (K)

SALORA 810 N, N/W, V, VPS, Y
POWER SUPPLY
SCHEMATIC DIAGRAM

No.12-2 V114014M
A2


A
B
C
D
E
F
1
2
3
4
5
6
7
8
TO MAIN (B) PCB
IDL.9V
TUNE
GND
SP (NC)
V.IN
BGP1
Y.V.OUT
IDL5V
PB.HC
PB.C.OUT
YNR
MESECAM
NC.VOL
SDC
TO ASO PCB P2
WP401
PB.Y.IN
GND
PB.Y.OUT
ASO
IDL.5
TR401 DTA114ES
IC400
LA7391
IC401
LC8992
MOD IN
SP/LP
1/2FH CAR SH
FM MOD
VIDEO
VCC1
AGC DET
VIDEO AGC
VIDEO AMP
QV/QH INS
CHAR INS
W/D CLIP
FBC
V/C MIX
4.2V REG
PB.AMP
B.DEEM
KILLER
KIL
4.43 BPF
MES
BGP1
BGP2
AMP 8dB
P/S DET
COMP
KIL-DET
ID-DET
DOUBLE LIMIT
DOC DET
CLAMP
LPF
6DB
SYNC SEP
FM DEMOD
DELAY
SUB LPF
200NS
PICTURE CONTROL
COMB DRIVER AMP
PAL11dB
NT 5dB
90° P.S
PB APC DET
REC AFC DET
HALF H. KILLER
BGP GEN
1/2
DOC
CORR
LIM
NL DE EMPH
WHP NOI CAN
20P1n CONT
B.G.
LP
SP
ACC DET
375NS
4.43M BPF
PAL
4PHASE SHIFTER
RP SW
500NS
3.5MHZ LPF
ACC.D AMP
BURST EMPH
MAIN CONV
5.06M BPF
SUB CONV
BALANCER
3RDLO PROT
W/D CLIP
20p1n CONT
MAIN DE EMPH
MAIN EMPH
NL EMPH
DETAIL EN-1
VCA
ATT
1MHZ LPF
REC APC DET
XO
VXO
XO IN
X500
GND
TP401
TP402
TP403
JS402
JS403
JS404
VR401
VR402
VR403
L401
L402
L403
L404
L405
L470
L472
L474
L509
L510
D401
D402
D412 UTZJ5.6C
D501 EXCEPT V
D506
TR406 2SA933S
TR407 2SA933S
TR408 DTC144ES
TR414 2SB1425
TR415 2SA933SS
TR423 DTA114ES
TR424 2SB1425
TR470 2SA933S
TR471 2SA933S
TR509 2SC1740S
TR510, TR511 2SC1740S
TR512 2SC1740S
R449 10K
R448 3.3K
C436 0.01/16 (N)
C437 0.01/16 (N)
C579 0.01/16 (N)
R407 27K
R412 56K
R413 15K
R582 100K
R581 4.7K
C578 150P (J)
C410 1/50
R411 10K
R410 10K
R409 10K
C409 0.0047 (J)
C408 0.001 (J)
C501
R503
C512
R507 1.2K
C401 0.01/16 (N)
C402 0.01/16 (N)
L401 100
R400 5.6K
VR403 6.8K
R401 22K
R402 33K
12K
R404 2.2K
C403 0.01/16 (N)
R408 12K
VR401 10K
C404 10/16
C405 10/16
C406 47/6.3
C407 0.01/16 (N)
R406 47
L405 100
R499 HC
C500 10/16
C580 0.1 (J)
C502 0.01/16 (N)
C503 220/6.3
C504 0.01/16 (N)
C505 0.047 (J)
L402 150
C412 56P (J)
R404 2.2K
C413 240P (J)
C414
C426 5P (J)
R422 2.2K
R423 910K
L403 27 (J)
C416 47P (J) CH
C415 150 (NP)
R424 2.2K
D406 1SS198
C440 10P (J)
C418 2.7K
R425
R426 560
390P (J)
C422 5P (C)
R428 3.9K
C420 150P (J)
C421 510P (J)
C423 10/16
C424 10/16
R471 6.8
C470 1/50
470
C543 22/10
R429 39K (F)
R430 10K (F)
R431 10K (F)
C544 22/10
R435 85K
C529 0.022 (J)
R546 1M
R526 1M
C528 1/50
C527 0.047 (J)
R525 8.2K
C526 1/50
R417
C411
R418
R450 2.7K
C435 47/6.3
R421 4.7K
C417 56P (J) CH
C472 0.01/16 (N)
C471 36P (J)
C474 4.7/25
R446 3K (F)
R419 DTC144ES
C475 0.01/16 (N)
C531 0.01/16 (N)
R529 2.2K
R445 5.1K
R477 1K
C483 0.01/16 (N)
L472 82
C478 47/10
C484 4.7P (J)
C477 0.01/16 (N)
C476 1/50
R475 10
R476 1K
C482 33P (J)
L474 56
R474 1K
R473 1K
C479 56P (J)
R447 4.7K (F)
C428 0.01/16 (N)
C439 0.01/16 (N)
C434 10/16 (NP)
R438 200
R439
R433 5.1K
C441 0.01/16 (N)
C429 0.01/16 (N)
C430 0.33/50
C427 0.01/16 (N)
R541 1K
R543 680
C532 0.01/16 (N)
R530 2.2K
R542 4.7K
C533 0.01/16 (N)
R544 330
R545 220
C539 0.01/16 (N)
L510 100 (J)
C534 52P (J) CH
R534 330
R539 10K
C542
P401
PB.5V
ENV.SW
HA.SW
TRICK
SEC.MES
PB.Y
ENV.DET
ASO
RECS.5or9
V-SWP
IDL5V
REC.Y
NTSC
GND
PB.C
REC.C
TO PRE AMP PCB WP1
RECS5or9
FE.GND
(NC)
HA.SW
ENV.SW
EXCEPT V
ENV.DET
REC.S
GND
V-SWP
C.ROT
DOC.P
AL
YNR
EE
TO MAIN (A) PCB 3/3
PB
IDL.9V
PICT
TRICK
TO MAIN (A) PCB (2/3)

MAIN (A) PCB 1/3
V1130A501A


G
H
I
J
K
1
2
3
4
5
6
7
8
SDC
NTSC
IMS.SO
IMS.CLK
IMS.STB
IMS.GND
IMS.SYNC
C512
L500
82
TR503
2SC1740S
EXCEPT V
JS501
DL500
EFD124A13J
R506
270
C511
0.01/16 (N)
C545
0.01/16 (N)
R507
1.2K
L501
15
R505
330
C546
47/6.3
BA10393N
IC402
R583 4.3K
C577
47/6.3
R584
10K
R585
3.3K
D501 EXCEPT V
R502
1K
C507
0.022 (J)
C508
1/50
TR501
DTC114ES
R547
22K
C509
0.022 (J)
C506
1/50
C505
0.047 (J)
COMP
KIL
321FH VCO
SLD
KIL-DET
ID-DET
1/8
P
R
PB APC DET
REC AFC DET
90° P.S.
BGP2
PAL
4PHASE SHIFTER
RP SW
MAIN CONV
5.06M BPF
SUB CONV
3RDLOCK PROTECT
BGP2
REC APC DET
XO
VXO
CONT
X2
XO IN
XO OUT
X500
4.433619MHz
C527
0.047 (J)
R525
8.2K
C526
1/50
C528
1/50
C523
0.01/16 (N)
P400
RESET 13
IMS.STB 12
IMS.CLK 11
IMS.SO 10
GND 9
SYS.CLK 8
SYS.SI 7
C.SYNC 6
S.READY 5
RESET 4
SYS.SO 3
IDL5V 2
NC 1
TO OPERATION PCB WP2
R540
10K
D507
L505
82
L506
82
C517
0.01/16 (N)
C519
0.01/16 (N)
C518
47/6.3
L508
4R7 (J)
C547
68P (J)
CH
R516
47K
TR506
2SC1740S
C510
0.01/16 (N)
R519
1K
C520
22P (J)
CH
C521
270P (J)
C522
0.01/16 (N)
R532
22K
TR515
2SC1740S
L507
1.2 (J)
R531
1.5K
R533
22K
R472
1K
R517
56K
R518
3.3K
R509
C531
0.01/16 (N)
R529
2.2K
TR511
R543
680
C534
62P (J)
CH
L510
100 (J)
R545
220
C539
0.01/16 (N)
R544
330
TR512
2SC1740S
TR513
DTA114ES
R536
22K
C536
150 (J)
D508
C535
0.01/16 (N)
R534
330
R535
18K
R537
1K
C537A
15P (J)
C537
220P (J)
C538
220P (J)
L511
330 (J)
L512
470 (J)
R538
1K
C541
0.01/16 (N)
C540
47/6.3
R539
10K
C542
0.01/16 (N)
TR514
DTC144ES
FR501
0.56 1/4W
TRICK
IDL5V
MESEC
NC.VOL
ASO
VP
V.SYNC
TO MAIN (A) PCB 3/3
RESET
SYS.CLK
SYS.SI
S.READY
RESET
SYS.SO
TO MAIN (A) PCB 2/3

WARNING: AND ▨ INDICATE SAFETY CRITICAL
COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS
ONLY WITH MANUFACTURER'S RECOMMENDED
PARTS

AVERTISSMENT: ET ▨ ILS INDIQUENT LES
COMPOSTANTS CRITIQUES DE SECURITE.
POUR MAINTENIR LE DEGRE DE SECURITE
DE L'APPAREIL, NE REMPLACER QUE DES
PIECES RECOMMANDEES PAR LFABRICANT

▨ :B (POWER SUPPLY) LINE

▨ :PB CHROMA SIGNAL LINE

▨ :REC CHROMA SIGNAL LINE

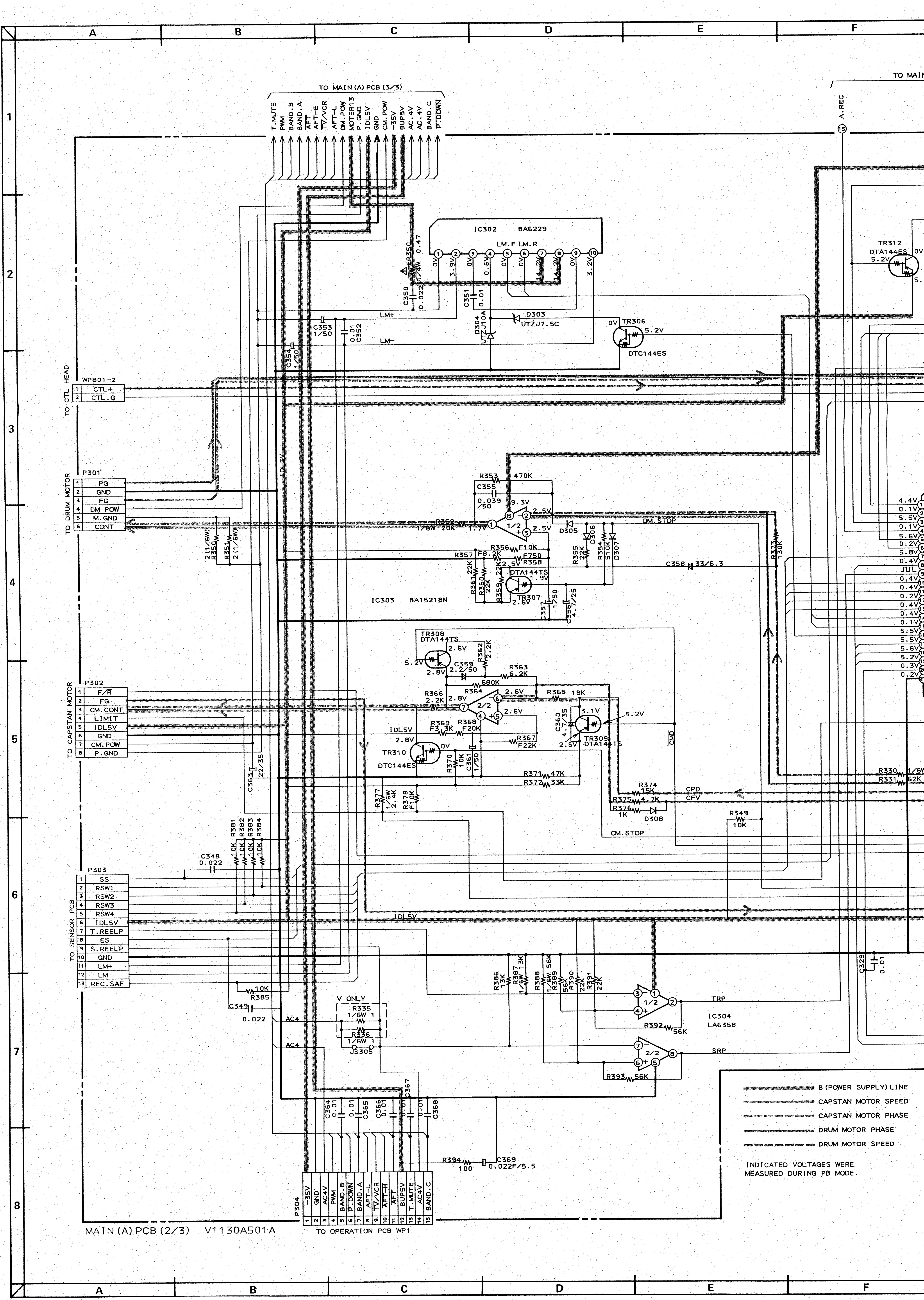
:REC Y SIGNAL LINE

:PB Y SIGNAL LINE

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P→PF)
ALL ELECTROLYTIC CAPACITORS IN $\mu F/WV$
ALL DIODES ARE 1SS131T

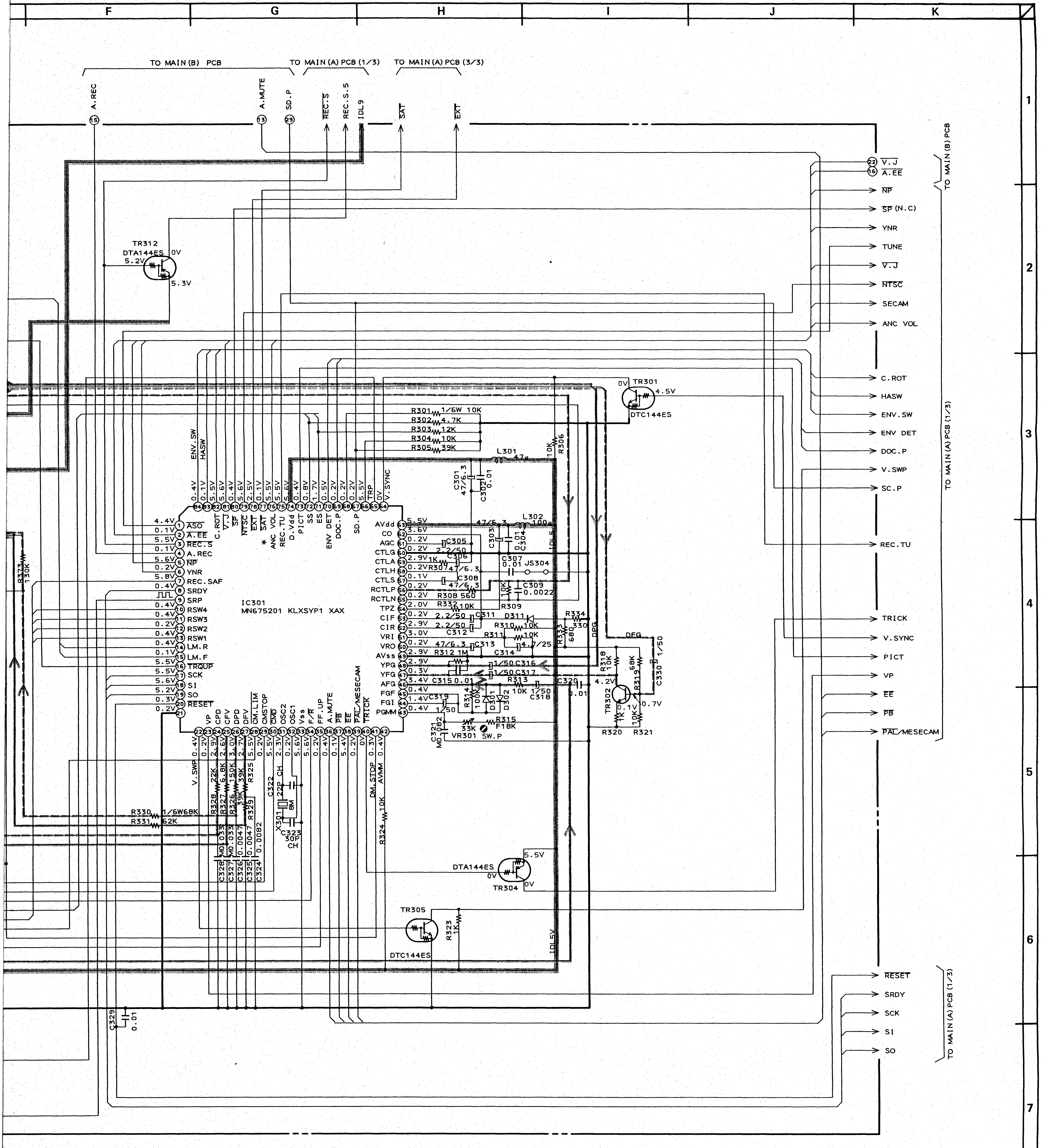
SALORA 810 N, N/W, V, VPS, Y
MAIN (A) 1/3
SCHEMATIC DIAGRAM

No.12-3 V114015M
A1


A
B
C
D
E
F
1
2
3
4
5
6
7
8
TO MAIN (A) PCB (3/3)
T.MUTE
PWM
BAND.B
BAND.A
AFT-E
TV/VCR
AFT-L
DM.POW
MOTER13
P.GND
IDL5V
GND
CM.POW
-35V
BUP5V
AC.4V
AC.4V
BAND.C
P.DOWN
TO MAIN
A.REC
IC302 BA6229
LM.F LM.R
FR350 1/4W 0.47
C350 0.022
C351 0.01
C353 1/50
C352 0.01
C354 1/50
LM+
LM-
D303 UTZJ7.5C
D304 UTZJ10A
TR306 DTC144ES
TR312 DTA144ES
5.2V
TO CTL HEAD
WP801-2
CTL+
CTL.G
TO DRUM MOTOR
P301
PG
GND
FG
DM POW
M.GND
CONT
R350 2(1/6W)
R351 2(1/6W)
IDL5V
R353 470K
C355 0.039/50
R352 1/6W 20K
1/2
D305
DM.STOP
R356 F10K
R357 F8.2K
R358 F750
R355 22K
R354 510K
D306
D307
R373 130K
C358 33/6.3
R360 22K
R361 22K
R359 22K
TA144TS
TR307
C357 1/50
C356 4.7/25
IC303 BA15218N
TR308 DTA144TS
R362 2.2K
C359 2.2/50
R363 6.2K
R364 680K
R366 2.2K
2/2
R365 18K
C360 4.7/35
TR309 DTA144TS
CMD
R369 F3.3K
R368 F20K
R367 F22K
TR310 DTC144ES
R370 10K
C361 1/50
R371 47K
R372 33K
R374 15K
R375 4.7K
R376 1K
D308
CPD
CFV
CM.STOP
R349 10K
R377 1/6W 2.4K
R378 F10K
TO CAPSTAN MOTOR
P302
F/R
FG
CM.CONT
LIMIT
IDL5V
GND
CM.POW
P.GND
C362 22/35
C348 0.022
R381 10K
R382 10K
R383 10K
R384 10K
TO SENSOR PCB
P303
SS
RSW1
RSW2
RSW3
RSW4
IDL5V
T.REELP
ES
S.REELP
GND
LM+
LM-
REC.SAF
R385 10K
C349 0.022
AC4
V ONLY
R335 1/6W 1
R336 1/6W 1
JS305
R386 13K
R387 1/6W 13K
R388 1/6W 56K
R389 56K
R390 22K
R391 22K
IC304 LA6358
TRP
SRP
R392 56K
R393 56K
C329 0.01
R330 1/6W
R331 62K
C364 0.01
C365 0.01
C366 0.01
C367 0.01
C368 0.01
R394 100
C369 0.022F/5.5
P304
-35V
GND
AC4V
PWM
BAND.B
P.DOWN
BAND.A
AFT-L
TV/VCR
AFT-H
AFT
BUP5V
T.MUTE
AC4V
BAND.C
TO OPERATION PCB WP1
B (POWER SUPPLY) LINE
CAPSTAN MOTOR SPEED
CAPSTAN MOTOR PHASE
DRUM MOTOR PHASE
DRUM MOTOR SPEED

INDICATED VOLTAGES WERE MEASURED DURING PB MODE.

MAIN (A) PCB (2/3) V1130A501A


F
G
H
I
J
K
1
2
3
4
5
6
7
8
TO MAIN (B) PCB
TO MAIN (A) PCB (1/3)
TO MAIN (A) PCB (3/3)
A.REC
A.MUTE
SD.P
REC.S
REC.S.5
IDL9
SAT
EXT
V.J
A.EE
NP
SP (N.C)
YNR
TUNE
NTSC
SECAM
ANC VOL
C.ROT
HASW
ENV.SW
ENV DET
DOC.P
V.SWP
SC.P
REC.TU
TRICK
V.SYNC
PICT
VP
EE
PB
PAL/MESECAM
RESET
SRDY
SCK
SI
SO
TR312
DTA144ES
TR301
DTC144ES
TR302
DTA144ES
TR304
TR305
DTC144ES
IC301
MN675201 KLXSYP1 XAX
ASO
REC.S
A.REC
YNR
REC.SAF
SRDY
SRP
RSW4
RSW3
RSW2
RSW1
LM.R
LM.F
TRQUP
SCK
SI
SO
RESET
AVdd
CO
AGC
CTLG
CTLA
CTLH
CTLS
RCTLP
RCTLN
TPZ
CIF
CIR
VRI
VRO
AVss
YPG
YFG
AFG
FGF
FGI
PGMM
VR301 SW.P
X301 8M
L301 47μ
L302 100μ
JS304
DFG
IDL5V
R301 1/6W 10K
R302 4.7K
R303 12K
R304 10K
R305 39K
R330 1/6W68K
R331 62K
R324 10K
R323 1K
C329 0.01

B (POWER SUPPLY) LINE
CAPSTAN MOTOR SPEED
CAPSTAN MOTOR PHASE
DRUM MOTOR PHASE
DRUM MOTOR SPEED

ICATED VOLTAGES WERE
SURED DURING PB MODE.

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/8W (J)
ALL CAPACITORS IN μF 16WV (N)
ALL INDUCTORS IN μH (K)
ALL DIODES ARE 1SS131T

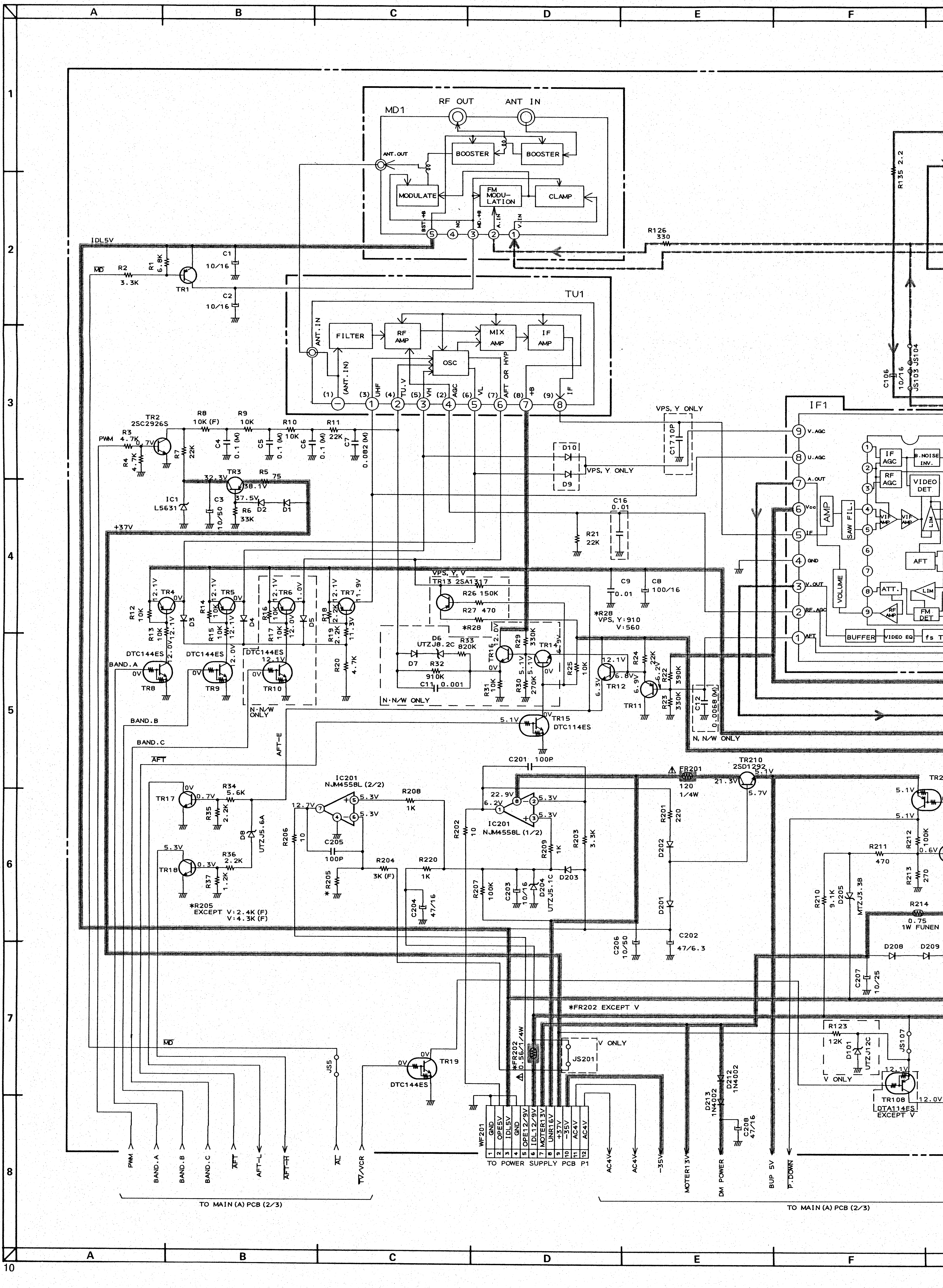
WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

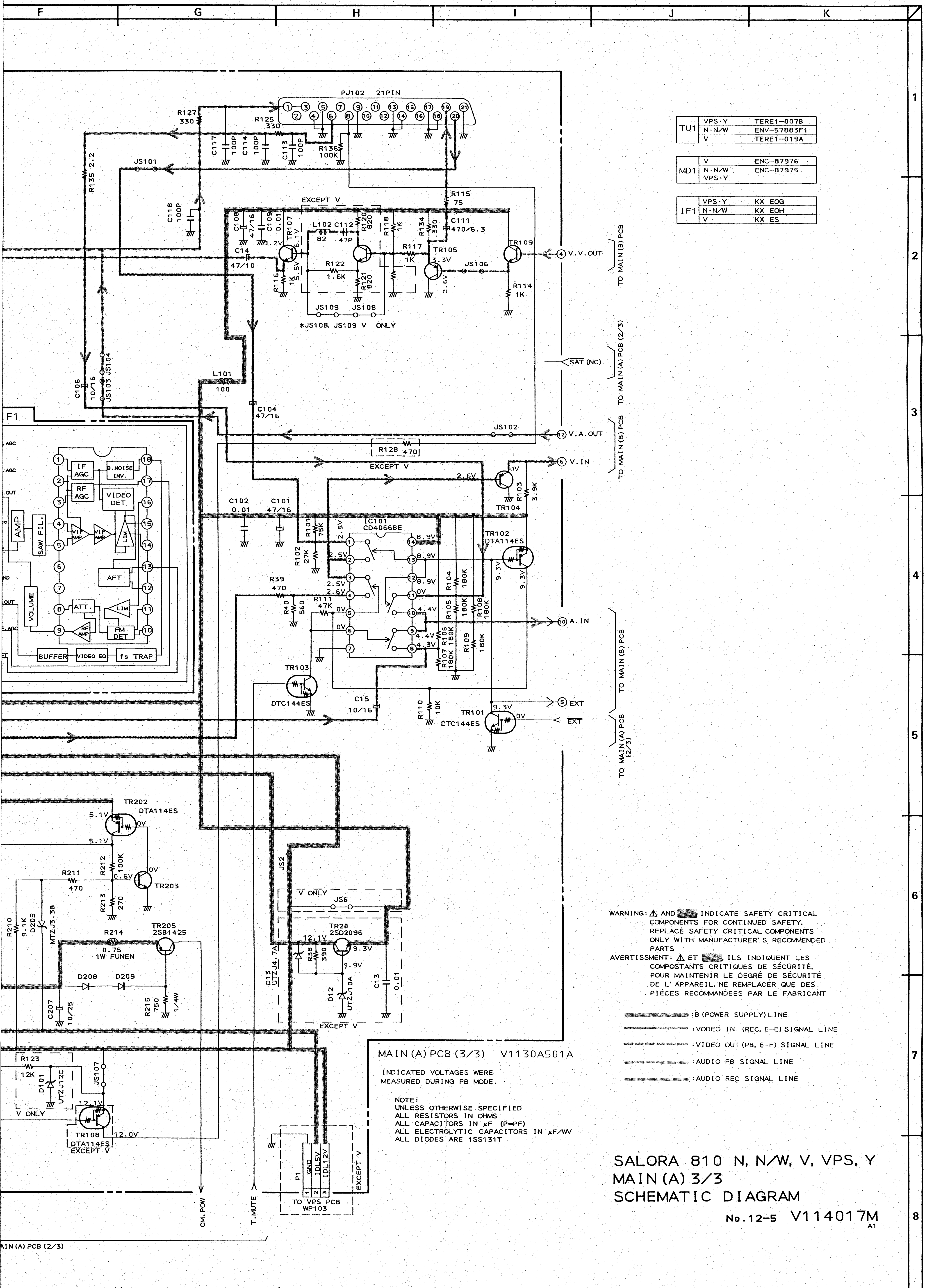
SALORA 810 N, N/W, V, VPS, Y
MAIN (A) 2/3
SERVO, SYSCON BLK
SCHEMATIC DIAGRAM

No.12-4 V114016M A1

F G H I J K



A
B
C
D
E
F
1
2
3
4
5
6
7
8
MD1
RF OUT
ANT IN
ANT.OUT
BOOSTER
BOOSTER
MODULATE
FM MODU-LATION
CLAMP
BST.+B
NC
MD.+B
A.IN
V.IN
IDL5V
MD
R2 3.3K
R1 6.8K
TR1
C1 10/16
C2 10/16
R126 330
TU1
ANT.IN
FILTER
RF AMP
MIX AMP
IF AMP
OSC
(ANT.IN)
UHF
TU.V
VH
AGC
VL
AFT OR HYP
+B
IF
R135 2.2
C106 10/16
JS103 JS104
TR2 2SC2926S
PWM
R3 4.7K
R4 4.7K
R7 22K
R8 10K (F)
R9 10K
R10 10K
R11 22K
C4 0.1 (M)
C5 0.1 (M)
C6 0.1 (M)
C7 0.082 (M)
TR3
32.3V
38.1V
37.5V
R5 75
R6 33K
D2
D1
IC1 L5631
C3 10/50
+37V
VPS, Y ONLY
C1710P
D10
D9
VPS, Y ONLY
C16 0.01
R21 22K
IF1
V.AGC
U.AGC
A.OUT
Vcc
IF
GND
V.OUT
RF.AGC
AFT
AMP
SAW FIL.
IF AGC
RF AGC
B.NOISE INV.
VIDEO DET
VIF AMP
VIF AMP
LIM
AFT
VOLUME
ATT.
LIM
RF AMP
FM DET
BUFFER
VIDEO EQ
fs T
TR4
TR5
TR6
TR7
R12 10K
R13 10K
R14 10K
R15 10K
R16 10K
R17 10K
R18 2.2K
R19 2.2K
R20 4.7K
12.1V
0V
12.0V
11.9V
11.3V
1.0V
D3
D4
D5
DTC144ES
BAND.A
TR8
DTC144ES
TR9
DTC144ES
TR10
N·N/W ONLY
VPS, Y, V
TR13 2SA1317
R26 150K
R27 470
*R28
*R28 VPS, Y: 910 V: 560
C9 0.01
C8 100/16
D6 UTZJ8.2C
R33 820K
D7
R32 910K
C11 0.001
N·N/W ONLY
TR16
R29 330K
TR14
5.1V
6.9V
R30 270K
R31 10K
R25 10K
TR12
6.8V
6.3V
R24 22K
TR11
5.2V
R22 390K
R23 330K
C12 0.0068 (M)
N, N/W ONLY
TR15 DTC114ES
5.1V
BAND.B
BAND.C
AFT
AFT-E
TR17
R34 5.6K
R35 2.2K
0.7V
D8 UTZJ5.6A
TR18
5.3V
0.3V
R36 2.2K
R37 1.2K
*R205 EXCEPT V: 2.4K (F) V: 4.3K (F)
IC201 NJM4558L (2/2)
12.7V
5.3V
R208 1K
R206 10
C205 100P
*R205
R204 3K (F)
R220 1K
C204 47/16
C201 100P
22.9V
6.2V
IC201 NJM4558L (1/2)
R202 10
R209 1K
R203 3.3K
D203
R207 100K
C203 10/16
D204 UTZJ5.1C
C206 10/50
FR201 120 1/4W
TR210 2SD1292
21.3V
5.7V
R201 220
D202
D201
C202 47/6.3
TR2
R211 470
R212 100K
0.6V
R213 270
R210 9.1K
D205 MTZJ3.3B
R214 0.75 1W FUNEN
D208
D209
C207 10/25
*FR202 EXCEPT V
V ONLY
JS201
*FR202 0.56/1/4W
R123 12K
D101 UTZJ12C
JS107
V ONLY
TR108 DTA114ES EXCEPT V
12.0V
JS5
TR19 DTC144ES
D212 1N4002
D213 1N4002
C208 47/16
WF201
GND
OPE5V
IDL5V
GND
OPE12/9V
IDL12/9V
MOTER13V
UNR16V
+37V
-35V
AC4V
AC4V
TO POWER SUPPLY PCB P1
PWM
BAND.A
BAND.B
BAND.C
AFT
AFT-L
AFT-H
AL
TV/VCR
TO MAIN (A) PCB (2/3)
AC4V
AC4V
-35V
MOTER13V
DM POWER
BUP 5V
P.DOWN
TO MAIN (A) PCB (2/3)


F
G
H
I
J
K
1
2
3
4
5
6
7
8
PJ102 21PIN
R127 330
R125 330
C117 100P
C114 100P
C113 100P
R136 100K
R135 2.2
JS101
C118 100P
EXCEPT V
C108 47/16
C109 0.01
TR107
L102 82
C112 47P
R120 820
R118 1K
R134 330
C111 470/6.3
R115 75
TR109
C14 47/10
9.2V
6.1V
5.5V
R116 1K
R122 1.6K
R121 820
R117 1K
TR105
3.3V
2.6V
JS106
R114 1K
JS109
JS108
*JS108, JS109 V ONLY
④ V.V.OUT
TO MAIN (B) PCB
SAT (NC)
TO MAIN (A) PCB (2/3)
L101 100
C106 10/16
JS103 JS104
C104 47/16
JS102
⑫ V.A.OUT
R128 470
EXCEPT V
⑥ V.IN
IF1
AGC
OUT
IF AGC
B.NOISE INV.
RF AGC
VIDEO DET
AMP
SAW FIL.
VIF AMP
VIF
LIM
AFT
VOLUME
ATT.
LIM
RF AMP
FM DET
BUFFER
VIDEO EQ
fs TRAP
2.6V
0V
TR104
R103 3.9K
C102 0.01
C101 47/16
IC101 CD4066BE
R101 75K
R102 27K
2.5V
8.9V
TR102 DTA114ES
9.3V
R39 470
R40 560
R111 47K
4.4V
4.3V
R104 180K
R105 180K
R106 180K
R107 180K
R108 180K
R109 180K
⑩ A.IN
TO MAIN (B) PCB
TR103
DTC144ES
C15 10/16
R110 10K
TR101 DTC144ES
⑤ EXT
EXT
TO MAIN (A) PCB (2/3)
TR202 DTA114ES
5.1V
R212 100K
R211 470
0.6V
TR203
R213 270
R210 9.1K
D205 MTZJ3.3B
TR205 2SB1425
R214 0.75 1W FUNEN
D208
D209
C207 10/25
R215 750 1/4W
JS2
V ONLY
JS6
TR20 2SD2096
12.1V
9.3V
9.9V
R38 390
D13 UTZJ4.7A
D12 UTZJ10A
C13 0.01
EXCEPT V
R123 12K
D101 UTZJ12C
JS107
V ONLY
TR108 DTA114ES
EXCEPT V
12.0V
CM.POW
T.MUTE
P1
GND
IDL5V
IDL12V
EXCEPT V
TO VPS PCB WP103
AIN (A) PCB (2/3)

TU1		
TU1	VPS·Y	TERE1-007B
	N·N/W	ENV-57883F1
	V	TERE1-019A

MD1		
MD1	V	ENC-87976
	N·N/W VPS·Y	ENC-87975

IF1		
IF1	VPS·Y	KX EOG
	N·N/W	KX EOH
	V	KX ES

WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

▬▬▬ :B (POWER SUPPLY) LINE

▬▬▬ :VODEO IN (REC, E-E) SIGNAL LINE

▬ ▬ ▬ :VIDEO OUT (PB, E-E) SIGNAL LINE

▬ ▬ ▬ :AUDIO PB SIGNAL LINE

▬▬▬ :AUDIO REC SIGNAL LINE

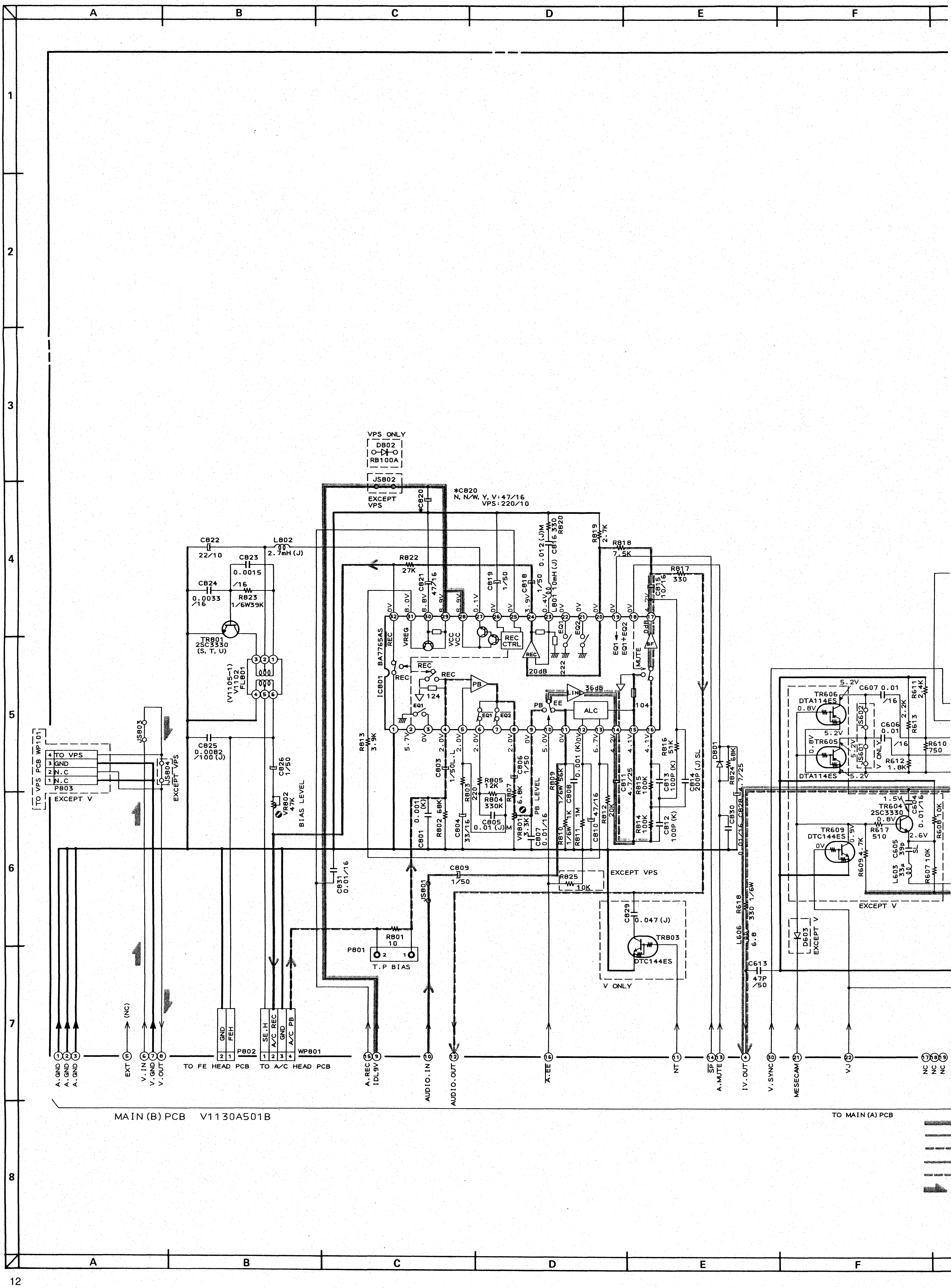
MAIN (A) PCB (3/3) V1130A501A

INDICATED VOLTAGES WERE MEASURED DURING PB MODE.

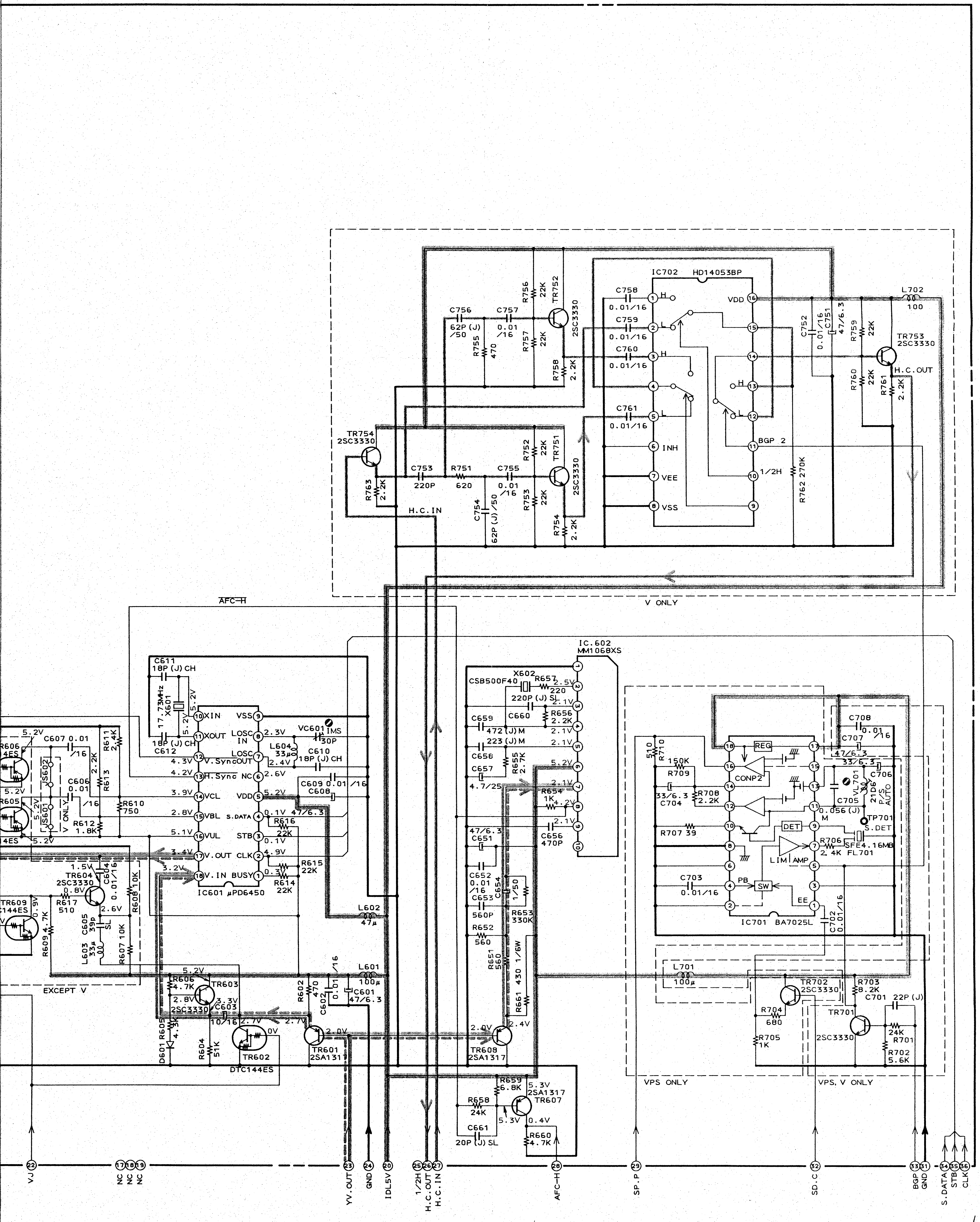
NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
ALL DIODES ARE 1SS131T

SALORA 810 N, N/W, V, VPS, Y
MAIN (A) 3/3
SCHEMATIC DIAGRAM

No.12-5 V114017M
A1


MAIN (B) PCB V1130A501B
TO MAIN (A) PCB
VPS ONLY
D802
RB100A
JS802
EXCEPT VPS
*C820
N, N/W, Y, V:47/16
VPS:220/10
C822
22/10
L802
2.7mH (J)
C823
0.0015
C824
0.0033
/16
R823
1/6W39K
R822
27K
TR801
2SC3330
(S, T, U)
(V1105-1)
V1102
FL801
C825
0.0082
/100 (J)
C826
1/50
VR802
47K
BIAS LEVEL
IC801 BA7765AS
REC
VREG
VCC
REC CTRL
20dB
EQ1
EQ2
EQ1+EQ2
MUTE
0dB
BF
PB
36dB
EE
ALC
PB LEVEL
R813
3.9K
R817
330
R818
7.5K
R819
2.7K
R820
330
C816
0.012 (J)M
L801 10mH (J)
C815
10/16
C818
1/50
C819
1/50
C821
47/16
R802 68K
C801 0.001 (K)
C803 1/50L.L
R803 220
R805 12K
R804 330K
C805 0.01 (J)M
C804 33/16
C806 1/50
R807 6.8K
VR801 3.3K
C807 0.01/16
R809 56K
R810 1/6W 1K
R811 1M
C808 0.001 (K)
C810 47/16
R812 20K
C811 4.7/25
R815 100K
R814 10K
C813 100P (K)
C812 100P (K)
R816 51K
C814 200P (J) SL
D801
R824 68K
C828 7/25
C830 0.01/16
C831 0.01/16
C809 1/50
JS801
R825 10K
EXCEPT VPS
C829 0.047 (J)
TR803
DTC144ES
V ONLY
R801 10
P801
T.P BIAS
JS803
JS804
EXCEPT VPS
TO VPS PCB WP101
TO VPS
GND
N.C
N.C
P803
EXCEPT V
R618 330 1/6W
L606 6.8
C613 47P /50
TR606 DTA114ES
TR605 DTA114ES
C607 0.01 /16
R611 2.4K
R613 2.2K
JS602
JS601
C606 0.01 /16
V ONLY
R610 750
R612 1.8K
TR604 2SC3330
TR609 DTC144ES
R617 510
R609 4.7K
C605 39p SL
L603 33μ
R607 10K
R608 10K
C604 0.01/16
EXCEPT V
D603 EXCEPT V
(NC)
P802
TO FE HEAD PCB
GND
FEH
SE.H
A/C REC
GND
A/C PB
WP801
TO A/C HEAD PCB
A.GND
A.GND
A.GND
EXT
V.IN
V.GND
V.OUT
A.REC
IDL9V
AUDIO.IN
AUDIO.OUT
A.EE
NT
SP
A.MUTE
IV.OUT
V.SYNC
MESECAM
VJ
NC
NC
NC
A B C D E F
1 2 3 4 5 6 7 8

F G H I J K


IC702 HD14053BP
VDD
INH
VEE
VSS
BGP 2
1/2H
TR752 2SC3330
TR751 2SC3330
TR753 2SC3330
TR754 2SC3330
H.C.OUT
H.C.IN
L702 100
C758 0.01/16
C759 0.01/16
C760 0.01/16
C761 0.01/16
C756 62P (J) /50
C757 0.01 /16
C753 220P
R751 620
C755 0.01 /16
C754 62P (J) /50
R755 470
R756 22K
R757 22K
R758 2.2K
R752 22K
R753 22K
R754 2.2K
R763 2.2K
C752 0.01/16
C751 47/6.3
R759 22K
R760 22K
R761 2.2K
R762 270K
V ONLY
AFC-H
IC.602 MM1068XS
X602 CSB500F40
R657 220
220P (J) SL
R656 2.2K
C659 472 (J) M
C660 223 (J) M
C658
C657 4.7/25
R655 2.7K
R654 1K
C656 470P
C651 47/6.3
C652 0.01 /16
C653 560P
C654 1/50
R653 330K
R652 560
R651 510
R661 430 1/6W
TR608 2SA1317
R659 6.8K
R658 24K
TR607 2SA1317
C661 20P (J) SL
R660 4.7K
C611 18P (J) CH
X601 17.73MHz
C612 18P (J) CH
IC601 µPD6450
XIN
XOUT
V.Sync OUT
H.Sync
VCL
VBL
VUL
V.OUT
V.IN
VSS
LOSC IN
LOSC OUT
NC
VDD
S.DATA
STB
CLK
BUSY
VC601 30P
L604 33µ
C610 18P (J) CH
C609 0.01 /16
C608
R616 22K
R615 22K
R614 22K
L602 47µ
L601 100µ
C601 47/6.3
C602 0.01 /16
R602 470
TR603 2SC3330
R606 4.7K
C603 10/16
TR602 DTC144ES
R604 51K
R605 4.3K
D601
TR601 2SA1317
C607 0.01 /16
R611 2.4K
R613 2.2K
JS602
JS601
C606 0.01 /16
V ONLY
R610 750
R612 1.8K
TR604 2SC3330
C604 0.01/16
R608 10K
R617 510
C605 39p SL
L603 33µ
R609 4.7K
R607 10K
TR609 144ES
EXCEPT V
IC701 BA7025L
REG
CONP2
DET
LIM
AMP
SW
PB
EE
R710 510
R709 150K
R708 2.2K
C704 33/6.3
R707 39
C703 0.01/16
C708 0.01 /16
C707 47/6.3
33/6.3
C706
VL701 21D6 P/S AUTO
C705 0.056 (J) M
TP701 S.DET
R706 2.4K
SFE4.16MB FL701
C702 0.01/16
L701 100µ
TR702 2SC3330
R703 8.2K
C701 22P (J)
R704 680
R705 1K
TR701 2SC3330
R701 24K
R702 5.6K
VPS ONLY
VPS, V ONLY
VJ
NC NC NC
YV.OUT
GND
IDL5V
1/2H
H.C.OUT
H.C.IN
AFC-H
SP.P
SD.C
BGP
GND
S.DATA
STB
CLK
22
17 18 19
23
24
20
25 26 27
28
29
32
33 31
34 35 36

TO MAIN (A) PCB

- :B (POWER SUPPLY) LINE
- :AUDIO REC SIGNAL LINE
- :AUDIO PB SIGNAL LINE
- :PB CHROMA SIGNAL LINE
- :PB Y SIGNAL LINE
- :VIDEO IN (REC, E-E) SIGNAL LINE

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/8W (J)
ALL CAPACITORS IN µF50 WV (M)
ALL INDUCTOR IN µH (K)

INDICATED VOLTAGES WERE
MEASURED DURING PB MODE.

SALORA 810 N, N/W, V, VPS, Y
MAIN (B)
SCHEMATIC DIAGRAM

No.12-6 V114018M

F G H I J K

PRINCIPAL PARTS LOCATION

ICS

IC101	D5
IC201	F4,5
IC301	E1,2
IC302	F1,2
IC303	E,F3
IC400	C3
IC401	C,D4
IC402	C,D1

WFS

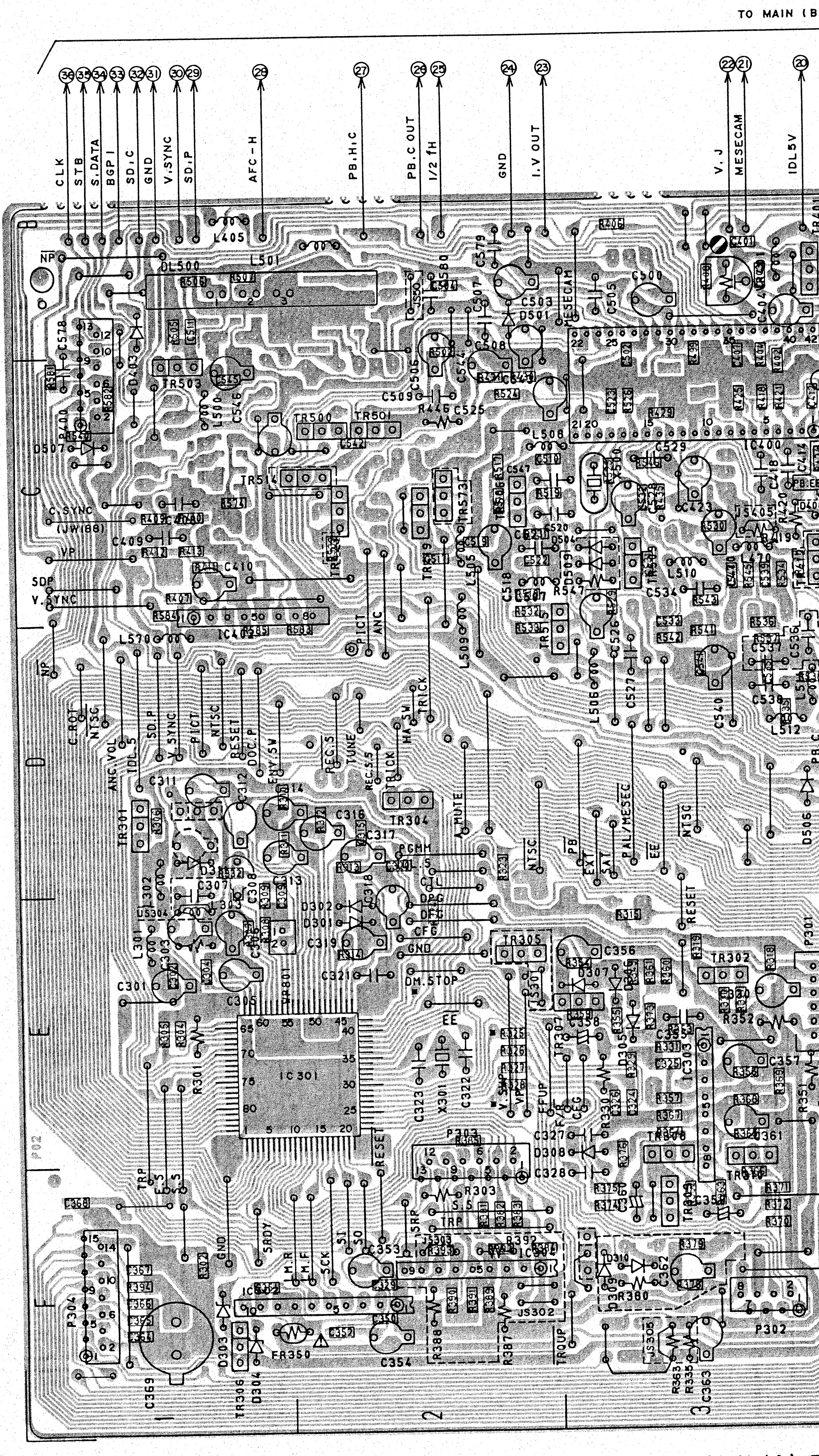
WF201	F4,5
WP401	B4,5

CONNECTORS

P1	E,F5
P301	E3
P302	E3
P303	E2
P304	F1
P400	B,C1
P401	D5

TRANSISTORS

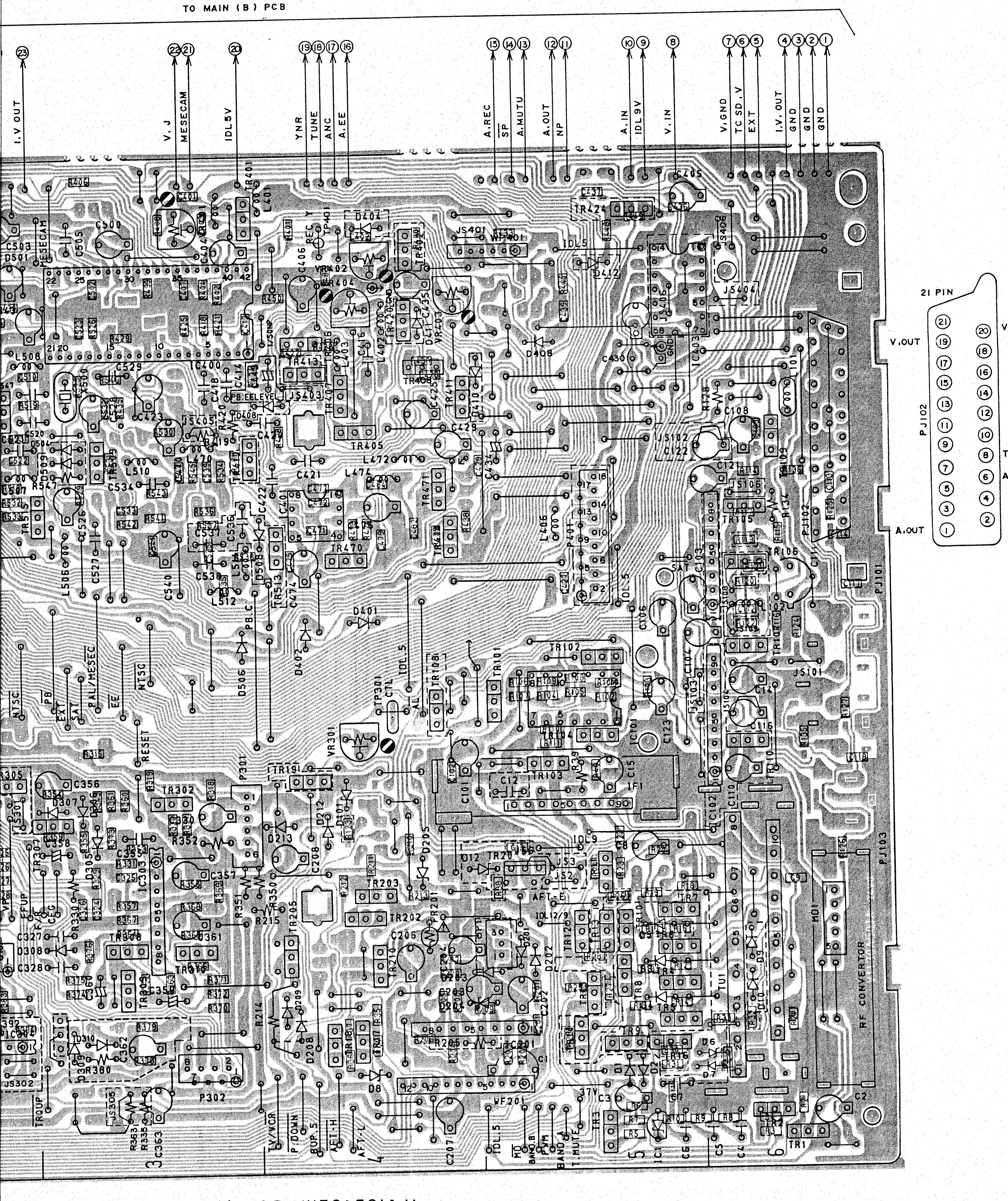
TR1	F6
TR2	F6
TR3	F5
TR4	F5
TR5	F5
TR6	F5
TR7	E5
TR8	F5
TR9	F5
TR10	E,F5
TR11	E5
TR12	E5
TR13	E,F5
TR14	F5
TR15	F5
TR16	F5
TR17	F4
TR18	F4
TR19	E4
TR20	E5
TR101	D5
TR102	D5
TR103	E5
TR104	E5
TR105	D6
TR106	D6
TR107	D6
TR108	D4
TR109	C6
TR202	E4
TR203	E4
TR205	E,F4
TR210	E,F4
TR301	D1
TR302	E3
TR304	D2
TR305	E2
TR306	F1
TR307	E3
TR308	E,F4
TR309	F3
TR310	E,F3
TR401	B3
TR406	C4
TR407	C4
TR408	C4
TR414	D4
TR419	C2
TR423	C2
TR424	B5
TR470	D4
TR471	C4
TR501	C2
TR503	C1
TR506	C2
TR509	C3
TR513	D4
TR514	C2
TR515	C2


TO MAIN (B
㊱ ㉟ ㉞ ㉝ ㉜ ㉛ ㉚ ㉙ ㉘ ㉗ ㉖ ㉕ ㉔ ㉓ ㉒ ㉑ ⑳
CLK
STB
S.DATA
BGP I
SD.C
GND
V.SYNC
SD.P
AFC-H
PB.H.C
PB.C OUT
1/2 fH
GND
I.V OUT
V.J
MESECAM
IDL5V
B
C
D
E
F
2
3
IC301
IC400
IC402
IC302
IC303
C.SYNC
VP
SDP
V.SYNC
NP
P304
P303
P302
P301
TR301
TR302
TR304
TR305
TR306
TR500
TR501
TR503
TR514
FR350
EE
RESET
MUTE
NTSC
PB
DM.STOP
GND

MAIN (A) F

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIECES RECOMMANDEES PAR LE FABRICANT


TO MAIN (B) PCB
㉓ I.V OUT
㉒ V.J
㉑ MESECAM
⑳ IDL5V
⑲ YNR
⑱ TUNE
⑰ ANC
⑯ A.EE
⑮ A.REC
⑭ SP
⑬ A.MUTU
⑫ A.OUT
⑪ NP
⑩ A.IN
⑨ IDL9V
⑧ V.IN
⑦ V.GND
⑥ TC SD.V
⑤ EXT
④ I.V.OUT
③ GND
② GND
① GND
21 PIN
V.OUT
V.IN
TV CONT.
A.IN
A.OUT
PJ102
PJ101
PJ103
RF CONVERTOR
JS401
JS403
JS404
JS405
JS102
JS106
JS101
JS301
JS302
JS305
JS2
JS3
WF401
WF201
P401
P301
P302
IC400
IC403
IC101
IC303
TU1
IF1
VR301
VR402
VR403
VR404
TP301
TP401
PB.EELEVEL
I/50NP
REC Y
IDL5
IDL9
IDL12/9
AFT.E
AFT.H
AFT.L
P.DOWN
P.UP
TV/VCR
BAND.B
BAND
T.MUTE
MO
PB
EXT
SAT
PAL/MESEC
EE
NTSC
RESET
PB.C
CTL
AL
TRQUP
F.UP
CG
37V
5V

MAIN (A) PCB V1130A501AJ1

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING
PARTS INFORMATION.

PRINCIPAL PARTS LOCATION

ICS

IC601	A3
IC602	A1
IC702	A2
IC801	A4

WP

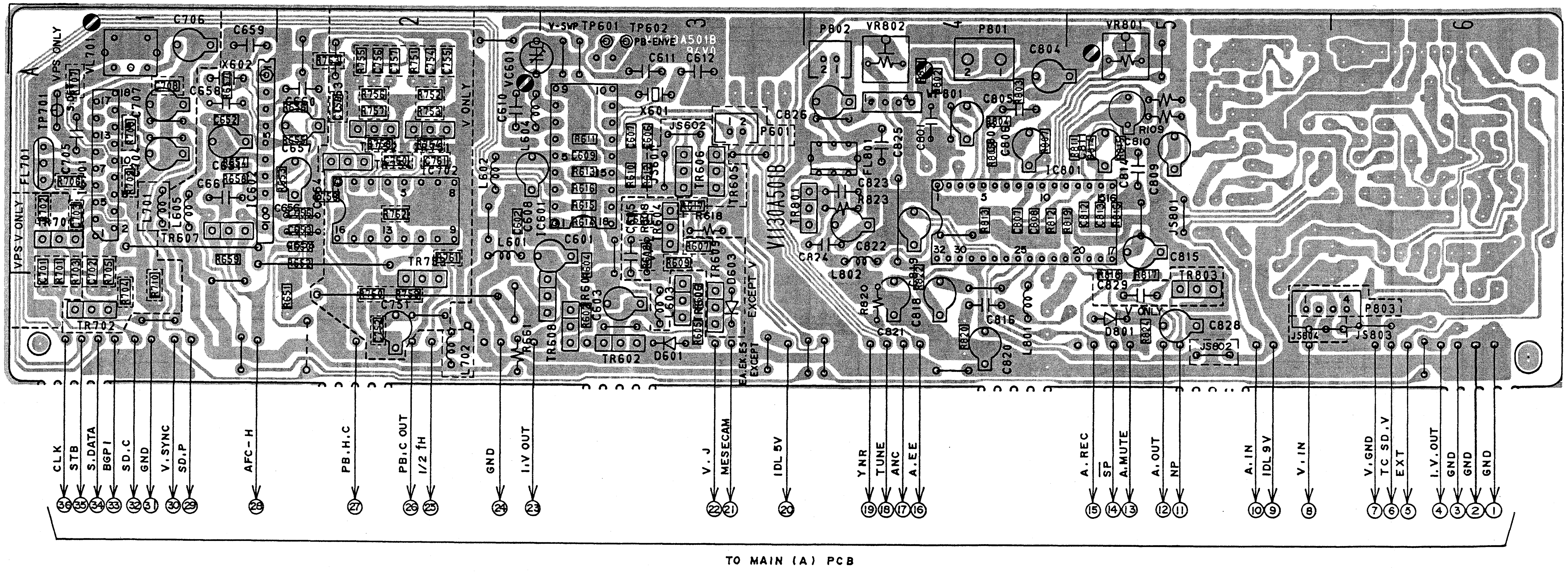
WP801	A4

CONNECTORS

P601	A3
P801	A4
P802	A4
P803	A5,6

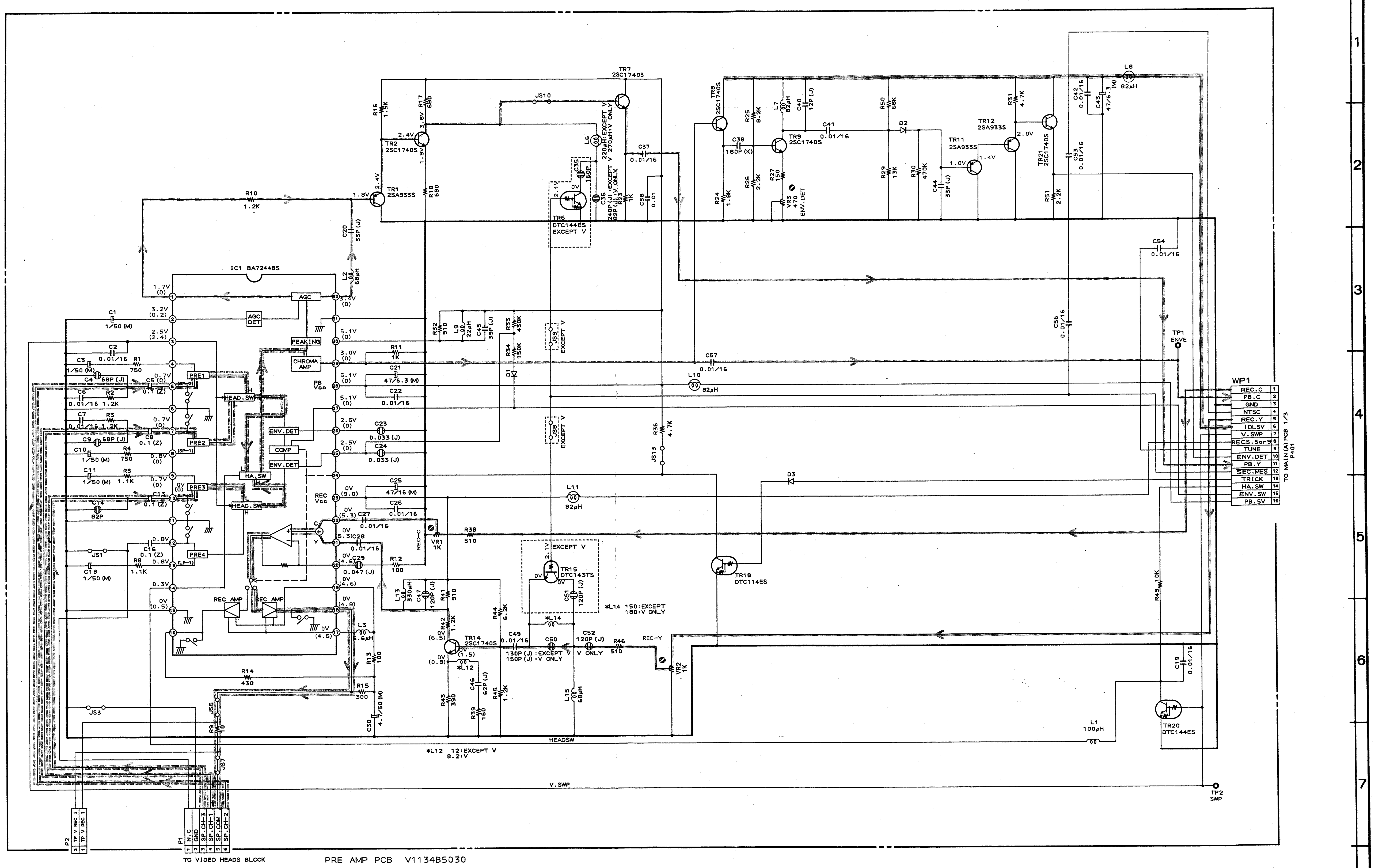
TRANSISTORS

TR601	A3
TR602	A3
TR603	A3
TR604	A3
TR605	A3
TR606	A3
TR607	A1
TR608	A3
TR609	A3
TR701	A1
TR702	A1
TR751	A2
TR752	A2
TR753	A2
TR754	A2
TR801	A4
TR803	A5


CLK ㊱
STB ㉟
S.DATA ㉞
BGP I ㉝
SD.C ㉜
GND ㉛
V.SYNC ㉚
SD.P ㉙
AFC-H ㉘
PB.H.C ㉗
PB.C OUT ㉖
1/2 fH ㉕
GND ㉔
I.V OUT ㉓
V.J ㉒
MESECAM ㉑
IDL 5V ⑳
YNR ⑲
TUNE ⑱
ANC ⑰
A.EE ⑯
A.REC ⑮
SP ⑭
A.MUTE ⑬
A.OUT ⑫
NP ⑪
A.IN ⑩
IDL 9V ⑨
V.IN ⑧
V.GND ⑦
TC SD.V ⑥
EXT ⑤
I.V.OUT ④
GND ③
GND ②
GND ①
TO MAIN (A) PCB
IC601
IC702
IC801
P601
P801
P802
P803
VR801
VR802
X601
X602
TR601
TR602
TR607
TR702
TR803
V1130A501B

MAIN (B) PCB V1130A501BJ1

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING PARTS INFORMATION.


IC1 BA7244BS
AGC
AGC DET
PEAKING
CHROMA AMP
ENV.DET
COMP
HA.SW
HEAD.SW
PRE1
PRE2
PRE3
PRE4
REC AMP
PB Vcc
REC Vcc
TR1 2SA933S
TR2 2SC1740S
TR6 DTC144ES EXCEPT V
TR7 2SC1740S
TR8 2SC1740S
TR9 2SC1740S
TR11 2SA933S
TR12 2SA933S
TR14 2SC1740S
TR15 DTC143TS
TR18 DTC114ES
TR20 DTC144ES
TR21 2SC1740S
D1
D2
D3
L1 100µH
L2 68µH
L3 5.6µH
L8 82µH
L10 82µH
L11 82µH
L15 68µH
VR1 1K REC-C
VR2 1K REC-Y
VR3 470 ENV.DET
*L12 12:EXCEPT V 8.2:V
*L14 150:EXCEPT 180:V ONLY
EXCEPT V
TP1 ENVE
TP2 SWP
HEADSW
V.SWP
WP1
REC.C
PB.C
GND
NTSC
REC.Y
IDLSV
V.SWP
RECS.5or9
TUNE
ENV.DET
PB.Y
SEC.MES
TRICK
HA.SW
ENV.SW
PB.5V
TO MAIN (A) PCB 1/3 P401
P1
N.C
GND
SP CH-3
SP CH-1
SP COM
SP CH-2
P2
TP V REC 1
TP V REC 1
TO VIDEO HEADS BLOCK
JS1
JS3
JS5
JS7
JS10
JS13

PRE AMP PCB V1134B5030

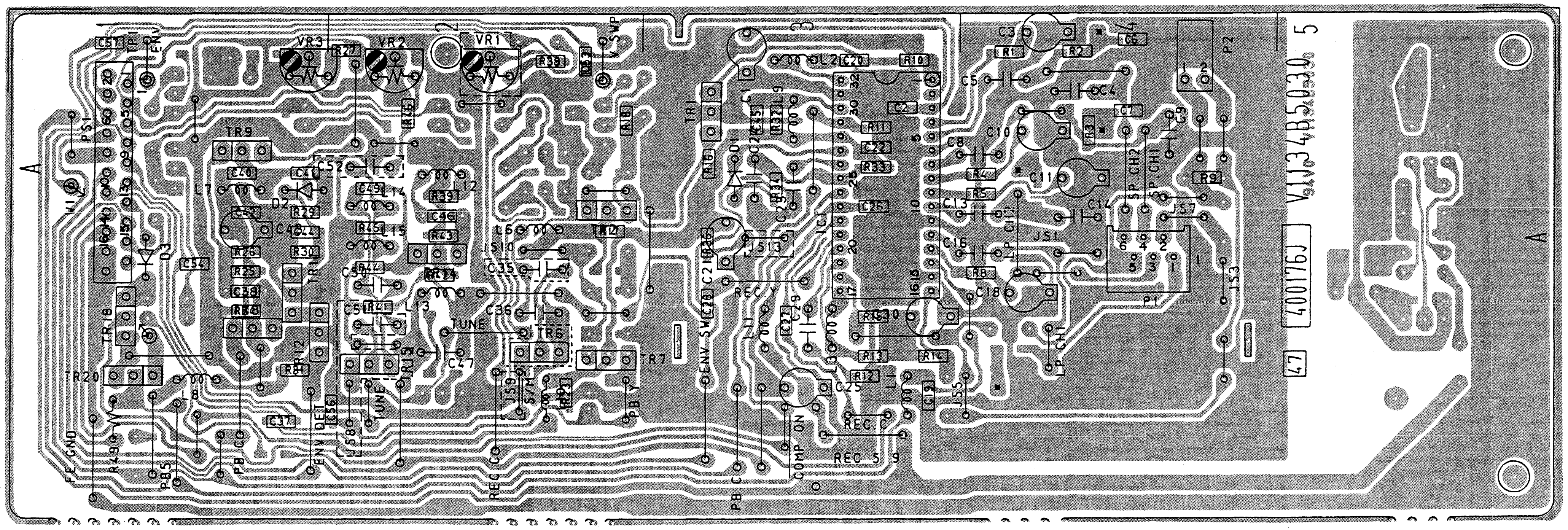
INDICATED VOLTAGES WERE
MEASURED DURING PB MODE.
( ):REC MODE

▬▬ :B (POWER SUPPLY) LINE
▬▬ :REC CHROMA SIGNAL LINE
‒ ‒ ‒ :PB CHROMA SIGNAL LINE
▬▬ :REC Y SIGNAL LINE
‒ ‒ ‒ :PB Y SIGNAL LINE

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN µF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN µF/WV
ALL DIODES ARE 1SS131

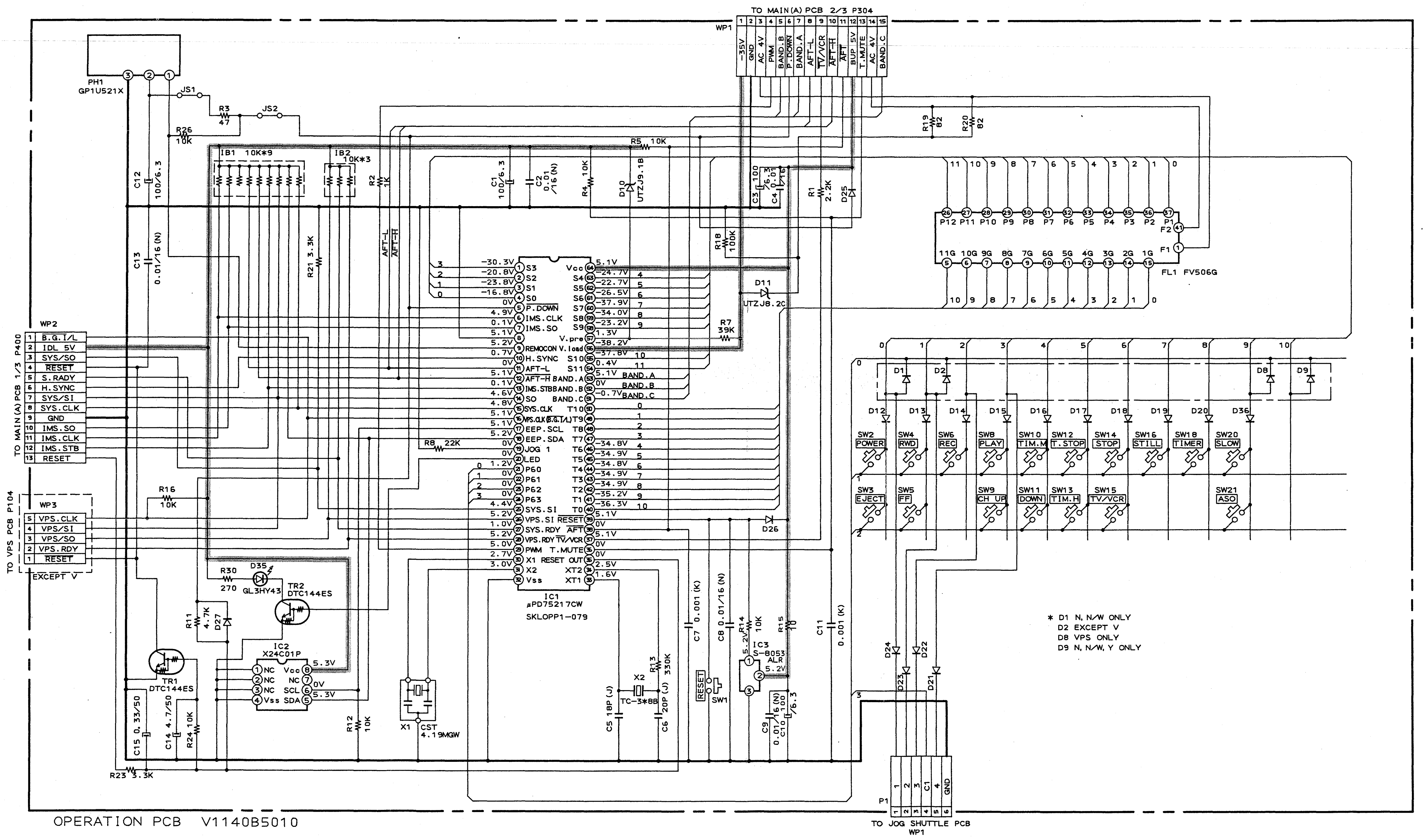
SALORA 810 N, N/W, V, VPS, Y
PRE AMP
SCHEMATIC DIAGRAM

No.12-7 V114019M A1


A
VR3
VR2
VR1
TR9
TR18
TR20
TR6
TR7
TR12
TR1
IC1
P1
P2
TUNE
REC.Y
REC.C
REC 5.9
ENV SW
ENV DET
COMP ON
PB.C
PB.Y
PB 5
FE GND
SP CH1
SP CH2
LP CH1
V1134B5030
400176J
A

PRE AMP PCB V1134B5030

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING
PARTS INFORMATION.


TO MAIN(A) PCB 2/3 P304
WP1
-35V
GND
AC 4V
PWM
BAND.B
P.DOWN
BAND.A
AFT-L
TV/VCR
AFT-H
AFT
BUP 5V
T.MUTE
AC 4V
BAND.C
PH1
GP1U521X
JS1
JS2
R3 47
R26 10K
IB1 10K*9
IB2 10K*3
R2 1K
R5 10K
C12 100/6.3
C13 0.01/16 (N)
C1 100/6.3
C2 0.01 /16 (N)
R4 10K
D10 UTZJ9.1B
C3 100/6.3
C4 0.01/16
R1 2.2K
D25
R19 82
R20 82
R18 100K
R21 3.3K
D11 UTZJ8.2C
R7 39K
R8 22K
R16 10K
FL1 FV506G
WP2
TO MAIN (A) PCB 1/3 P400
B.G.I/L
IDL 5V
SYS/SO
RESET
S.RADY
H.SYNC
SYS/SI
SYS.CLK
GND
IMS.SO
IMS.CLK
IMS.STB
RESET
WP3
TO VPS PCB P104
VPS.CLK
VPS/SI
VPS/SO
VPS.RDY
RESET
EXCEPT V
IC1
μPD75217CW
SKLOPP1-079
R30 270
D35 GL3HY43
TR2 DTC144ES
TR1 DTC144ES
R11 4.7K
D27
IC2 X24C01P
R12 10K
X1 CST 4.19MGW
C5 18P (J)
X2 TC-3*BB
C6 20P (J)
R13 330K
C7 0.001 (K)
RESET SW1
C8 0.01/16 (N)
R14 10K
IC3 S-8053 ALR
R15 10
C9 0.01/16 (N)
C10 100/6.3
C11 0.001 (K)
D26
C14 4.7/50
C15 0.33/50
R24 10K
R23 3.3K
SW2 POWER
SW4 RWD
SW6 REC
SW8 PLAY
SW10 TIM.M
SW12 T.STOP
SW14 STOP
SW16 STILL
SW18 TIMER
SW20 SLOW
SW3 EJECT
SW5 FF
SW9 CH UP
SW11 DOWN
SW13 TIM.H
SW15 TV/VCR
SW21 ASO
D1 D2 D8 D9
D12 D13 D14 D15 D16 D17 D18 D19 D20 D36
D21 D22 D23 D24
* D1 N, N/W ONLY
D2 EXCEPT V
D8 VPS ONLY
D9 N, N/W, Y ONLY
P1
TO JOG SHUTTLE PCB WP1
OPERATION PCB V1140B5010

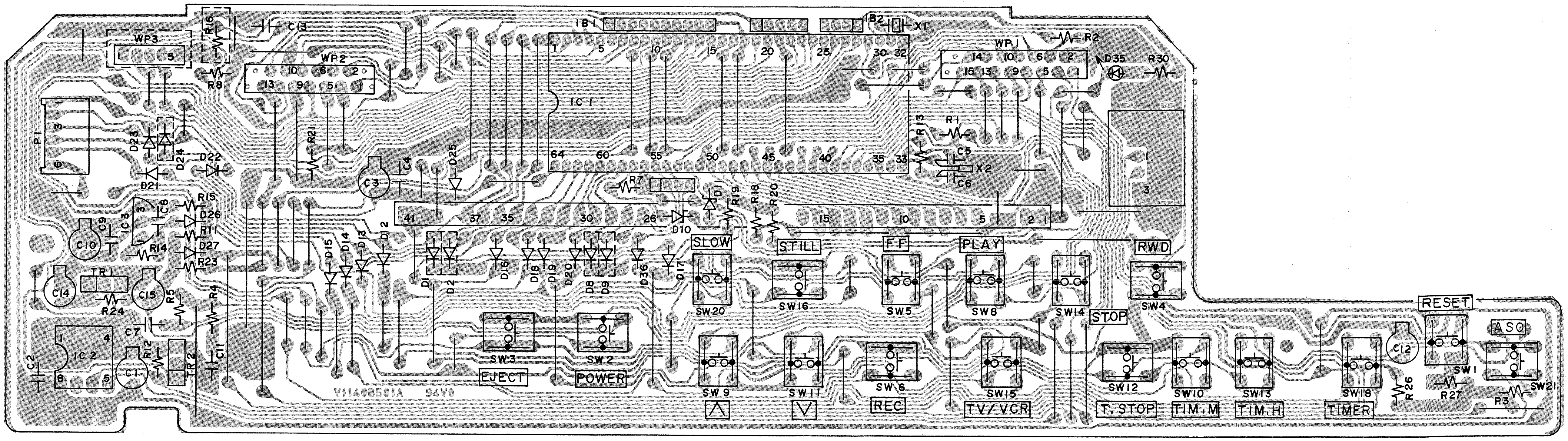
▨ :B (POWER SUPPLY) LINE

INDICATED VOLTAGES WERE MEASURED DURING PB MODE.

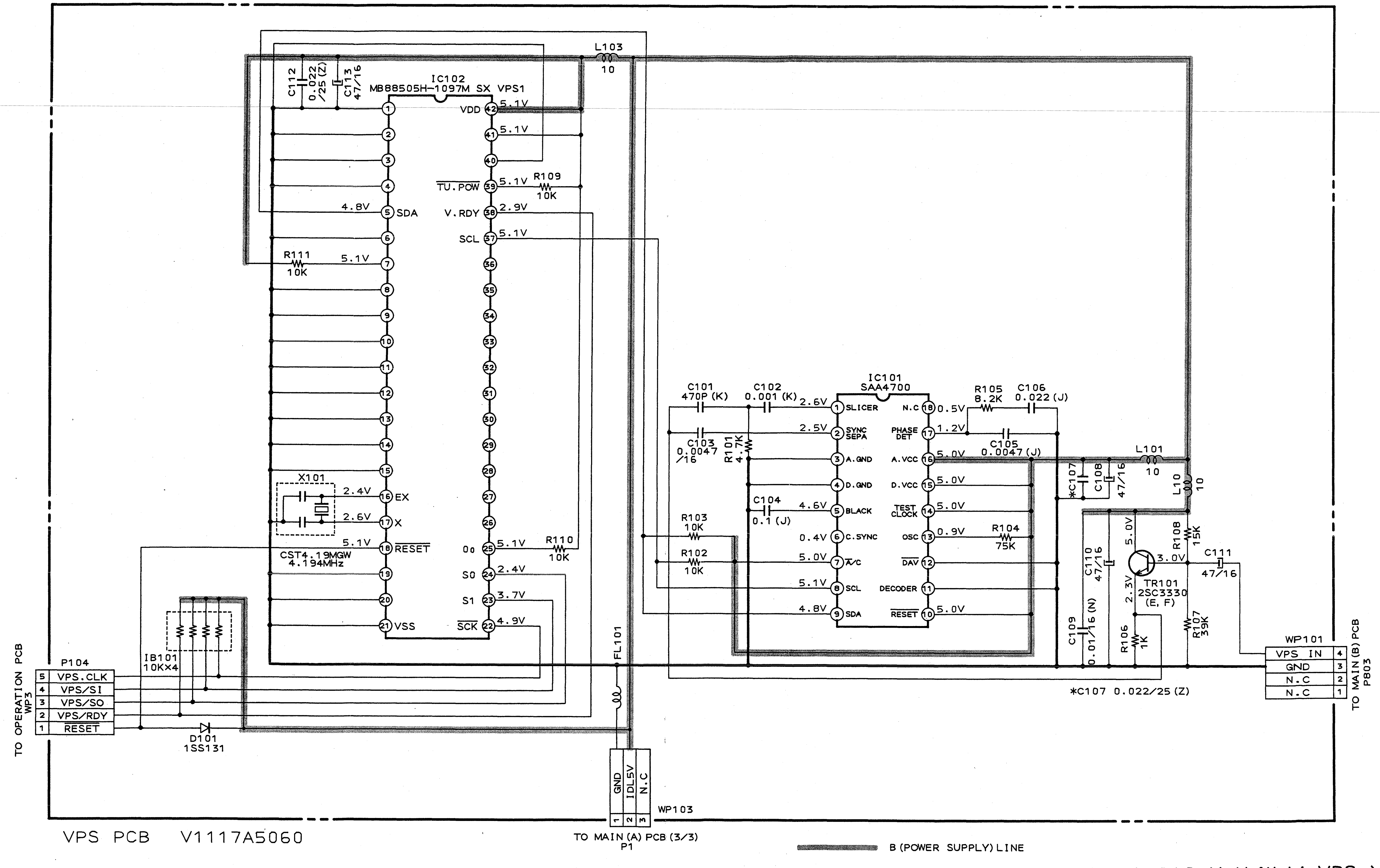
NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
ALL DIODES ARE 1SS131T

SALORA 810 N, N/W, V, VPS·Y
OPERATION
SCHEMATIC DIAGRAM

No.12-8 V114020M
A1


WP3
R16
C13
IB1
IB2
X1
WP1
R2
D35
R30
WP2
R8
P1
IC1
D23
D24
D22
D21
R21
C3
C4
D25
R13
R1
C5
X2
C6
R7
D11
R19
R18
R20
D10
R15
D26
R11
D27
R23
C8
IC3
C9
C10
R14
D15
D14
D13
D12
D1
D2
D16
D18
D19
D20
D8
D9
D36
D17
SLOW
STILL
FF
PLAY
RWD
SW20
SW16
SW5
SW8
SW14
STOP
SW4
RESET
ASO
C14
TR1
C15
R24
R5
R4
C7
IC2
C1
R12
TR2
C11
C2
SW3
SW2
EJECT
POWER
SW9
SW11
SW6
REC
SW15
TV/VCR
SW12
T. STOP
SW10
TIM.M
SW13
TIM.H
SW18
TIMER
C12
R26
SW1
R27
R3
SW21
V1140B501A 94V0

OPERATION PCB V1140B501A


IC102
MB88505H-1097M SX VPS1
C112 0.022 /25 (Z)
C113 47/16
L103 10
VDD 5.1V 42
41 5.1V
40
TU.POW 39 5.1V
R109 10K
V.RDY 38 2.9V
SCL 37 5.1V
4.8V 5 SDA
R111 10K
5.1V 7
X101
2.4V 16 EX
2.6V 17 X
5.1V 18 RESET
CST4.19MGW 4.194MHz
21 VSS
O0 25 5.1V
R110 10K
S0 24 2.4V
S1 23 3.7V
SCK 22 4.9V
IB101 10K×4
P104
5 VPS.CLK
4 VPS/SI
3 VPS/SO
2 VPS/RDY
1 RESET
TO OPERATION PCB WP3
D101 1SS131
FL101
GND
IDL5V
N.C
WP103
TO MAIN (A) PCB (3/3) P1
IC101
SAA4700
C101 470P (K)
C102 0.001 (K)
2.6V 1 SLICER
2.5V 2 SYNC SEPA
C103 0.0047 /16
R101 4.7K
3 A.GND
4 D.GND
C104 0.1 (J)
4.6V 5 BLACK
0.4V 6 C.SYNC
5.0V 7 A/C
5.1V 8 SCL
4.8V 9 SDA
R103 10K
R102 10K
N.C 18 0.5V
R105 8.2K
C106 0.022 (J)
PHASE DET 17 1.2V
C105 0.0047 (J)
A.VCC 16 5.0V
D.VCC 15 5.0V
TEST CLOCK 14 5.0V
OSC 13 0.9V
R104 75K
DAV 12
DECODER 11
RESET 10 5.0V
*C107
C108 47/16
L101 10
L10 10
C110 47/16
C109 0.01/16 (N)
5.0V
2.3V
R108 15K
3.0V
C111 47/16
TR101 2SC3330 (E, F)
R106 1K
R107 39K
*C107 0.022/25 (Z)
WP101
VPS IN 4
GND 3
N.C 2
N.C 1
TO MAIN (B) PCB P803

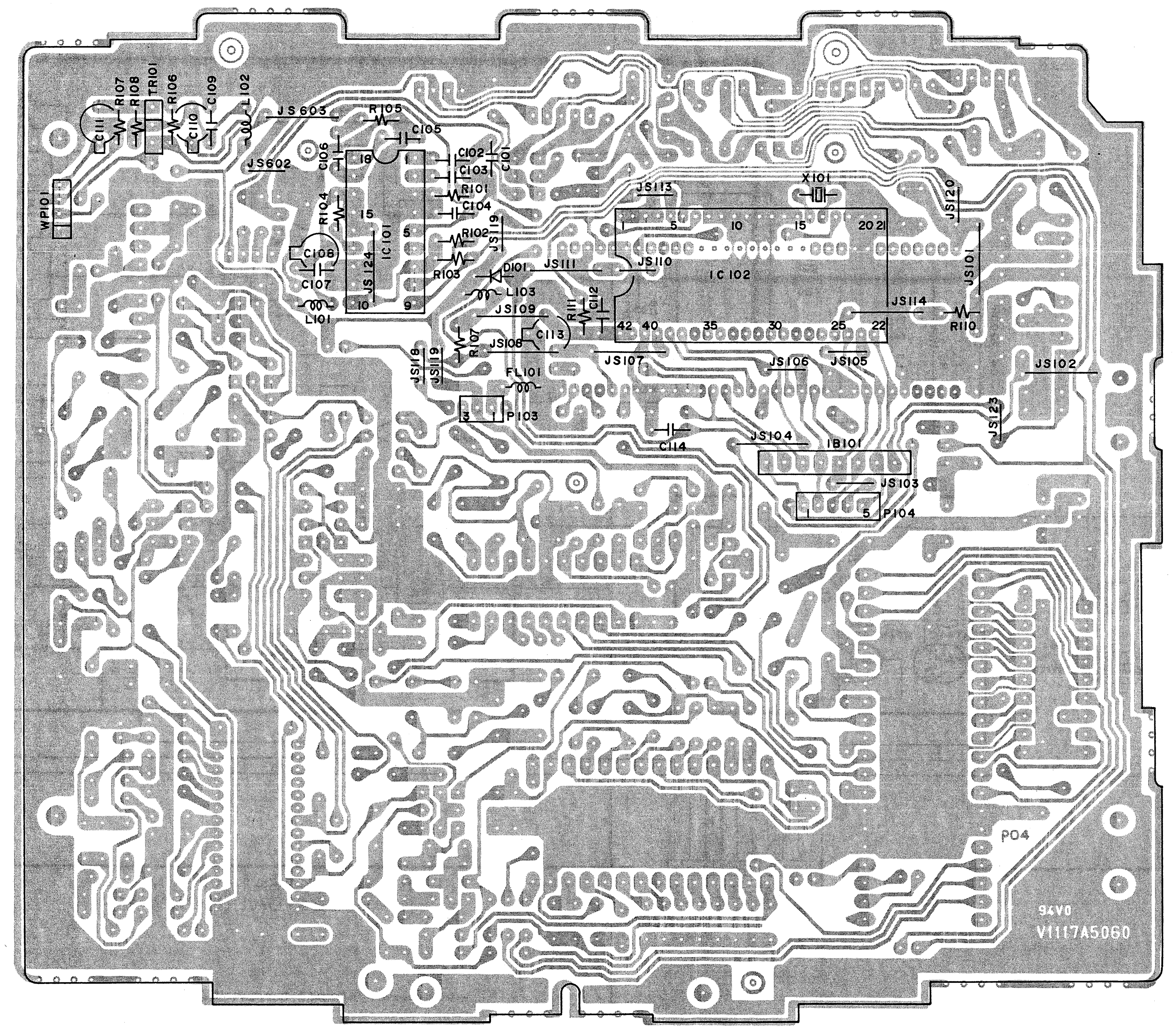
VPS PCB V1117A5060

B (POWER SUPPLY) LINE

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN μF 50WV (M)
ALL INDUCTORS IN μH (K)

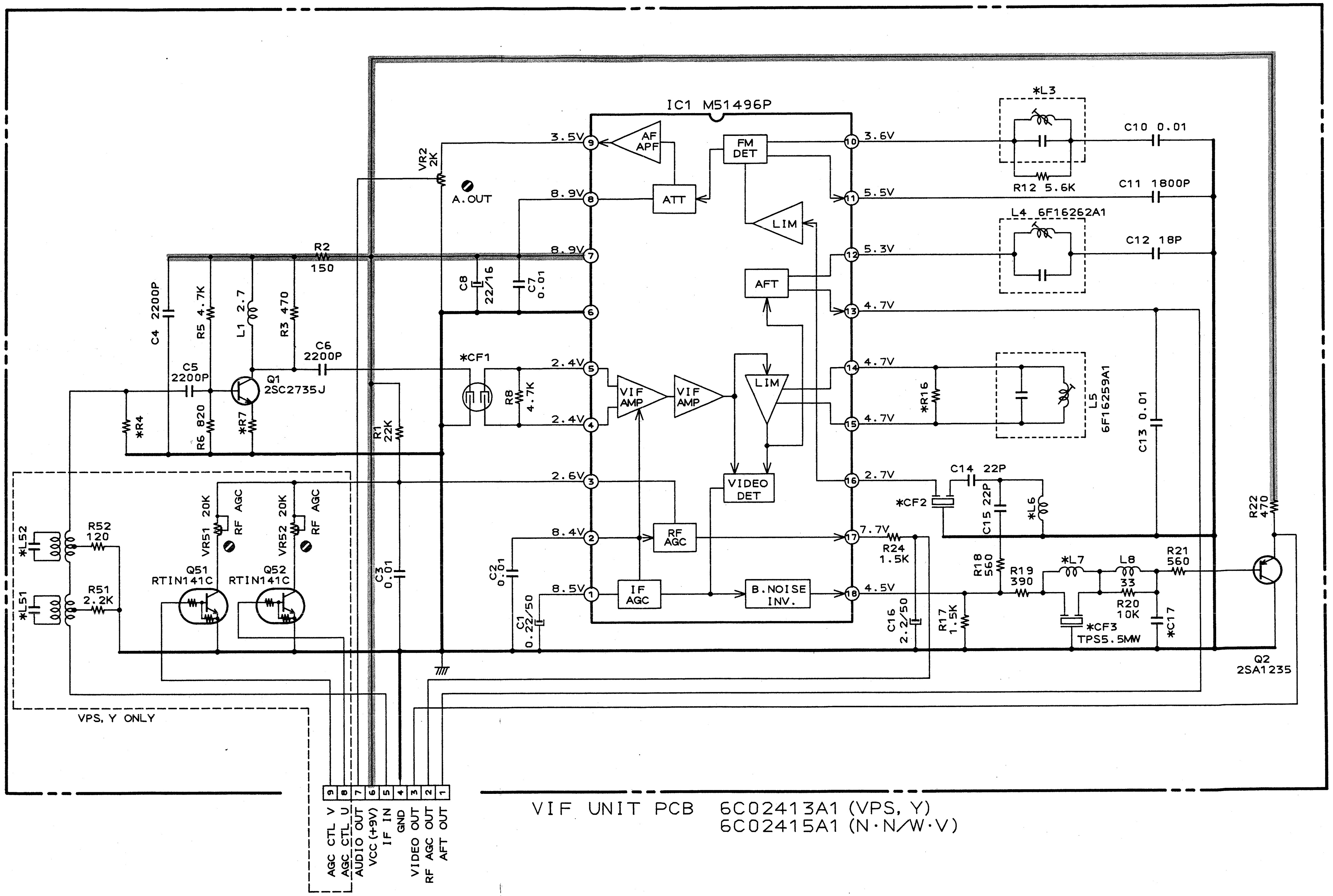
INDICATED VOLTAGES WERE
MEASURED DURING PB MODE.

SALORA 810 N, N/W, V, VPS, Y
VPS
SCHEMATIC DIAGRAM
No.12-9 V114021M
A2


R107
R108
TR101
R106
C109
L102
C111
C110
WP101
JS603
R105
C105
JS602
C106
C102
C103
C101
R101
C104
R104
IC101
18
15
5
10
9
JS124
C108
C107
L101
R102
R103
D101
L103
JS119
JS109
JS108
R111
C112
C113
JS118
JS119
FL101
P103
3
1
JS111
JS110
JS113
X101
JS120
IC102
5
10
15
20
21
42
40
35
30
25
22
JS114
JS101
R110
JS107
JS106
JS105
JS102
JS123
C114
JS104
IB101
JS103
1
5
P104
P04
94V0
V1117A5060

VPS PCB V1117A5060J3

*	N, N/W	V	VPS, Y
CF1	SAF38.9 MZW70Z	SAF38.9 MZW70Z	SAF38.9 MZW70Z
CF2	SEF 5.5MBF	SFE 6.0MBF	SFE 5.5MBF
CF3	TPS 5.5MW	TPS 6.0MB2	TPS 5.5MW
L3	6F16215 A2	6F16263 A3	6F16263 A2
L6	18	15	18
L7	15	15	18
L51	–	–	6F16222 A1
L52	–	–	6F16222 A1
R4	100	100	–
R7	22	22	27
R16	–	10K	10K
C17	12P	15P	12P


IC1 M51496P
AF APF
FM DET
ATT
LIM
AFT
VIF AMP
VIF AMP
LIM
VIDEO DET
RF AGC
IF AGC
B.NOISE INV.
3.5V
8.9V
8.9V
2.4V
2.4V
2.6V
8.4V
8.5V
3.6V
5.5V
5.3V
4.7V
4.7V
4.7V
2.7V
7.7V
4.5V
VR2 2K
A.OUT
R2 150
C8 22/16
C7 0.01
C4 2200P
R5 4.7K
L1 2.7
R3 470
C6 2200P
C5 2200P
Q1 2SC2735J
*R4
R6 820
*R7
R1 22K
*CF1
R8 4.7K
*L52
*L51
R52 120
R51 2.2K
VR51 20K
RF AGC
VR52 20K
RF AGC
Q51 RTIN141C
Q52 RTIN141C
C3 0.01
C2 0.01
C1 0.22/50
VPS, Y ONLY
*L3
C10 0.01
R12 5.6K
C11 1800P
L4 6F16262A1
C12 18P
*R16
L5 6F16259A1
C13 0.01
C14 22P
*CF2
C15 22P
*L6
R24 1.5K
C16 2.2/50
R17 1.5K
R18 560
R19 390
*L7
L8 33
R20 10K
*CF3 TPS5.5MW
*C17
R21 560
R22 470
Q2 2SA1235
9 AGC CTL V
8 AGC CTL U
7 AUDIO OUT
6 VCC (+9V)
5 IF IN
4 GND
3 VIDEO OUT
2 RF AGC OUT
1 AFT OUT

VIF UNIT PCB 6C02413A1 (VPS, Y)
6C02415A1 (N·N/W·V)

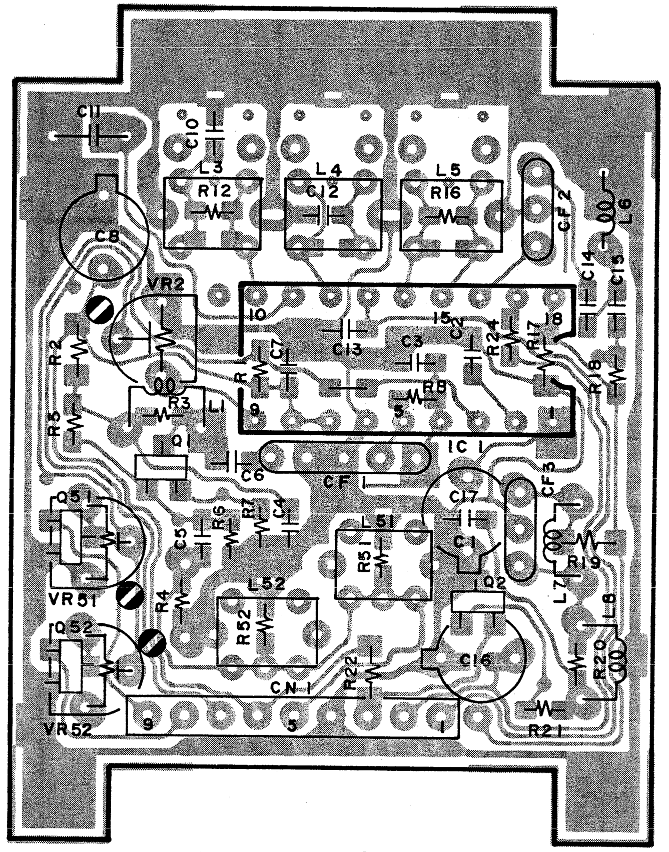
▨ B (POWER SUPPLY) LINE

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/10W (J)
ALL CAPACITORS IN μF 50 WV (J)
ALL INDUCTORS IN μH (K)

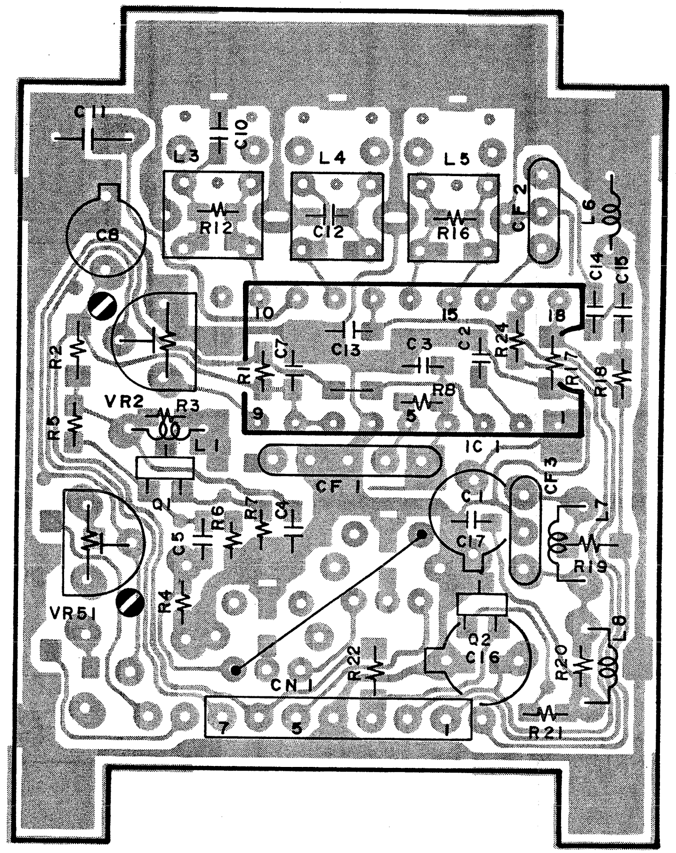
INDICATED VOLTAGES WERE MEASURED
DURING E–E (STOP) MODE.

SALORA 810 N, N/W, V, VPS, Y
VIF UNIT
SCHEMATIC DIAGRAM

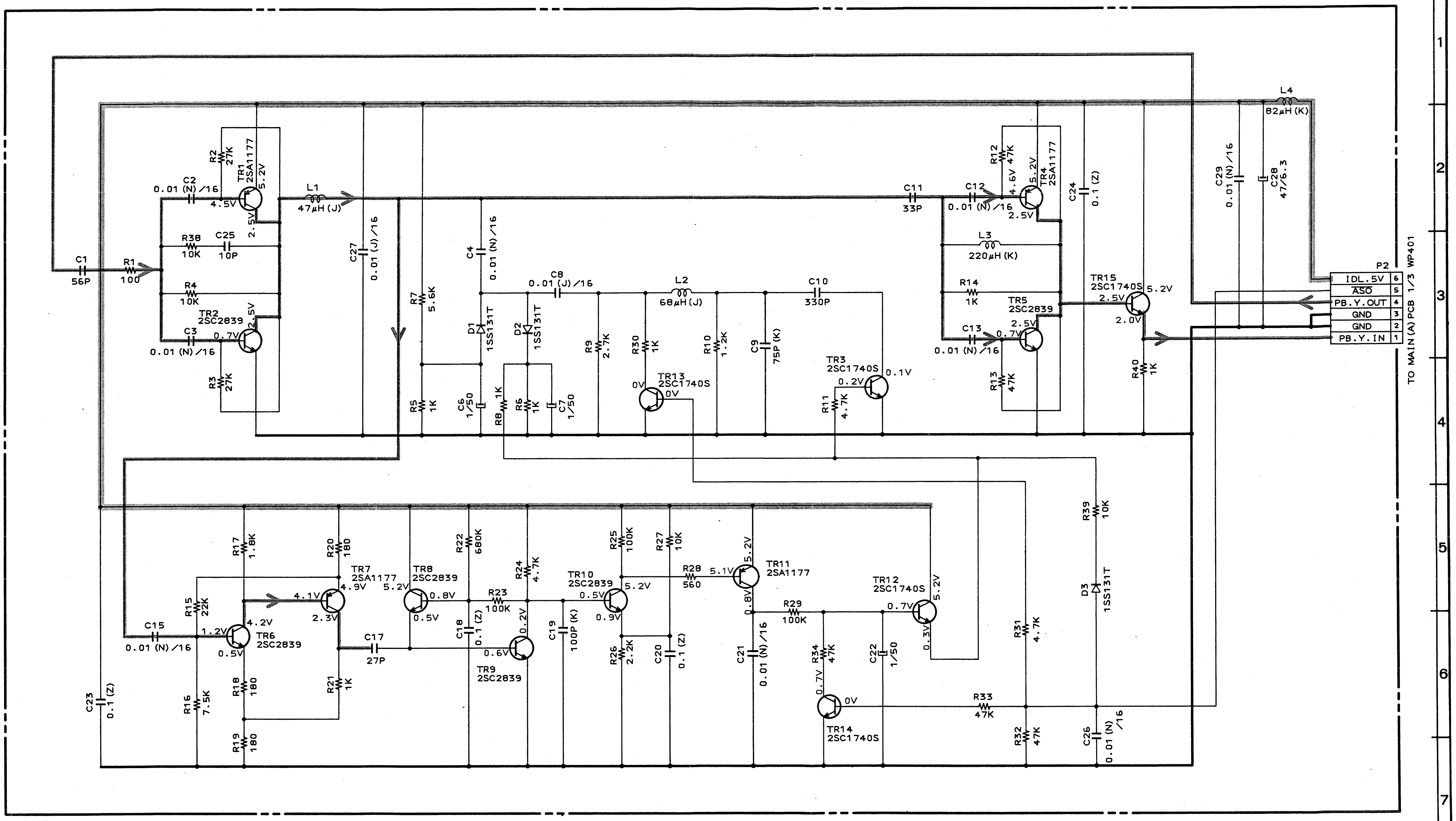
No.12–10 V114022M A2


C11
C10
L3
L4
L5
R12
C12
R16
CF2
L6
C8
C14
C15
VR2
10
15
18
C13
C3
C2
R24
R17
R2
R1
C7
R8
R18
R3
L1
9
5
R5
Q1
C6
CF1
IC1
C17
CF3
Q51
C5
R6
R7
C4
L51
C1
R51
Q2
VR51
R4
L52
L7
R19
L8
Q52
R52
R22
C16
R20
CN1
VR52
R21

VIF UNIT 6C02413A1
(VPS.Y ONLY)


C11
C10
L3
L4
L5
R12
C12
R16
CF2
L6
C8
C14
C15
10
15
18
C13
C3
C2
R24
R17
R2
R1
C7
R8
R18
VR2
R3
L1
9
5
R5
CF1
IC1
Q1
C5
R6
R7
C4
C1
C17
CF3
L7
R19
VR51
R4
Q2
C16
R22
R20
L8
CN1
7
5
1
R21

VIF UNIT 6C02415A1
(N.N/W.V ONLY)


C1 56P
R1 100
C2 0.01 (N)/16
R2 27K
TR1 2SA1177
4.5V
2.5V
5.2V
R38 10K
C25 10P
R4 10K
TR2 2SC2839
2.5V
0.7V
C3 0.01 (N)/16
R3 27K
L1 47µH (J)
C27 0.01 (J)/16
R7 5.6K
R5 1K
C4 0.01 (N)/16
D1 1SS131T
C6 1/50
D2 1SS131T
R8 1K
R6 1K
C7 1/50
C8 0.01 (J)/16
R9 2.7K
L2 68µH (J)
R30 1K
TR13 2SC1740S
0V
0V
R10 1.2K
C9 75P (K)
C10 330P
TR3 2SC1740S
0.2V
0.1V
R11 4.7K
C11 33P
C12 0.01 (N)/16
R12 47K
TR4 2SA1177
4.6V
5.2V
2.5V
L3 220µH (K)
R14 1K
TR5 2SC2839
2.5V
0.7V
C13 0.01 (N)/16
R13 47K
C24 0.1 (Z)
TR15 2SC1740S
2.5V
5.2V
2.0V
R40 1K
C29 0.01 (N)/16
C28 47/6.3
L4 82µH (K)
P2
IDL.5V 6
ASO 5
PB.Y.OUT 4
GND 3
GND 2
PB.Y.IN 1
TO MAIN (A) PCB 1/3 WP401
C15 0.01 (N)/16
R15 22K
R17 1.8K
TR6 2SC2839
1.2V
4.2V
0.5V
R16 7.5K
R18 180
R19 180
R20 180
TR7 2SA1177
4.1V
4.9V
2.3V
R21 1K
C17 27P
C23 0.1 (Z)
TR8 2SC2839
5.2V
0.8V
0.5V
R22 680K
R23 100K
C18 0.1 (Z)
R24 4.7K
TR9 2SC2839
0.2V
0.6V
C19 100P (K)
TR10 2SC2839
0.5V
5.2V
0.9V
R25 100K
R26 2.2K
R27 10K
C20 0.1 (Z)
R28 560
TR11 2SA1177
5.1V
5.2V
0.8V
C21 0.01 (N)/16
R29 100K
R34 47K
0.7V
TR14 2SC1740S
0V
C22 1/50
TR12 2SC1740S
0.7V
5.2V
0.3V
R33 47K
R31 4.7K
R32 47K
R39 10K
D3 1SS131T
C26 0.01 (N)/16

ASO PCB V1130B5200

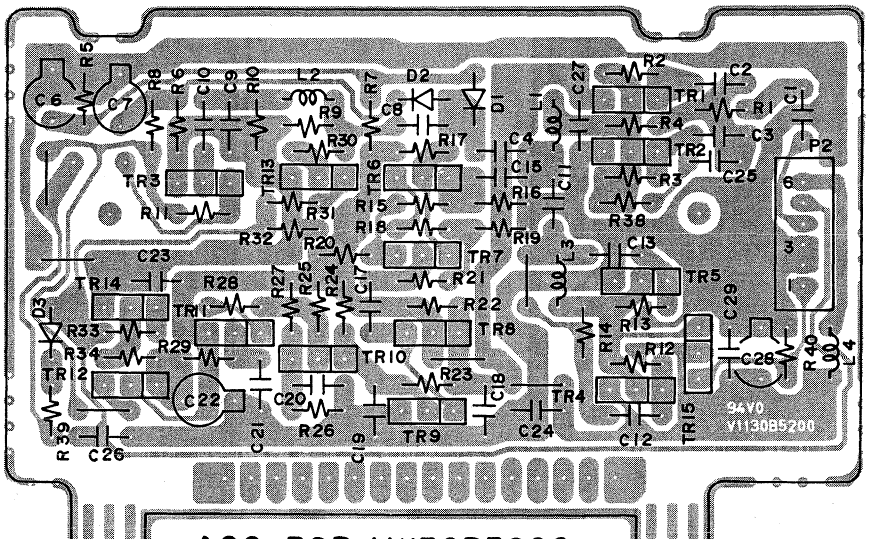
▬ :B (POWER SUPPLY) LINE

▬ :PB FM Y SIGNAL LINE

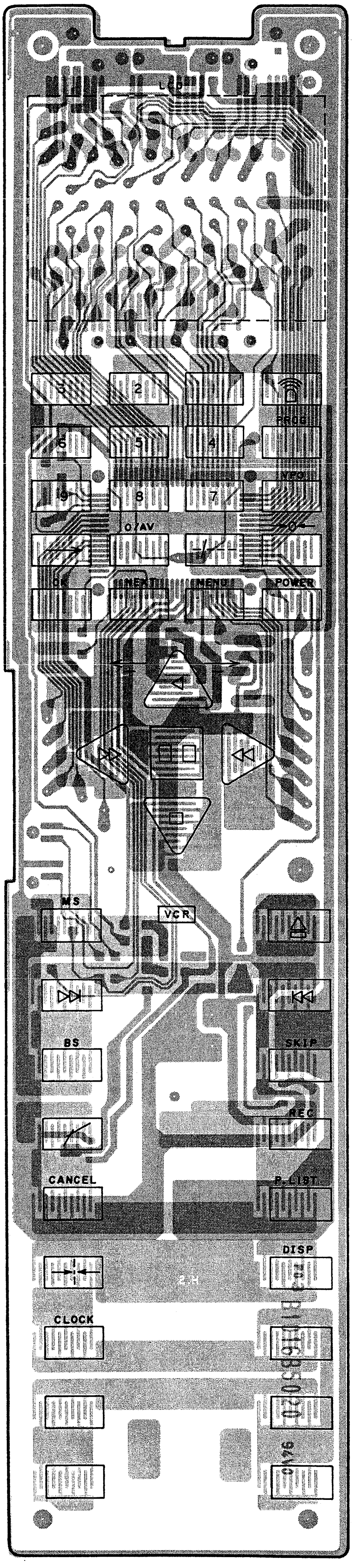
INDICATED VOLTAGES WERE
MEASURED DURING PB MODE.
(ASO:ON)

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS (J)
ALL CAPACITORS IN µF (P=PF) (J)/50VDC
ALL ELECTROLYTIC CAPACITORS IN µF/(M)/VDC
ALL DIODES ARE 1SS131T

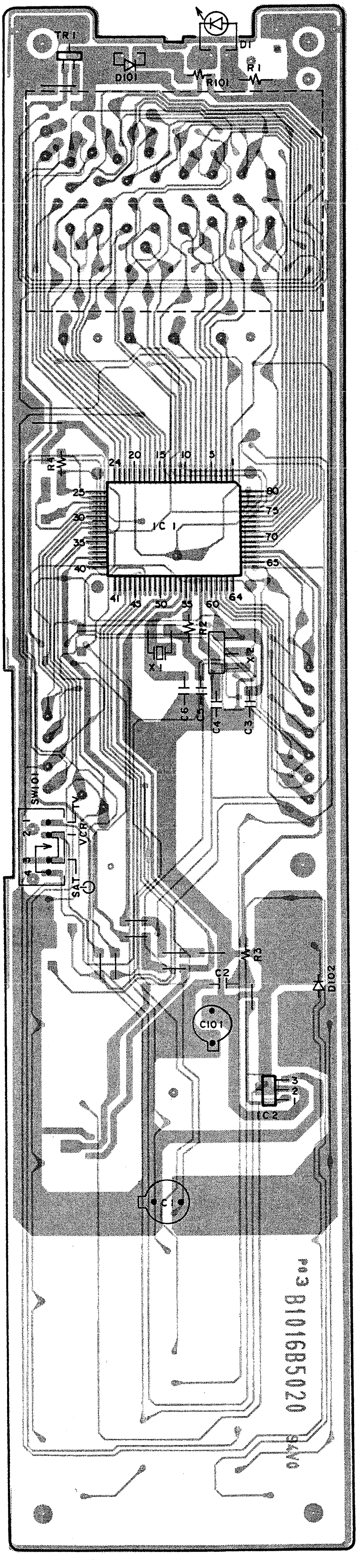
SALORA 810 N, N/W, V, VPS, Y
ASO
SCHEMATIC DIAGRAM
No.12-11 V114023M
A2


R5
C6
C7
R8
R6
C10
C9
R10
L2
R7
D2
D1
C8
R9
R30
R17
C4
C15
C11
L1
C27
R2
TR1
C2
R1
C1
R4
C3
TR2
C25
P2
6
3
1
R3
R38
R16
R19
TR3
TR13
TR6
R11
R31
R15
R18
R32
R20
TR7
C23
L3
C13
TR5
TR14
R28
R27
R25
R24
C17
R21
R22
D3
TR11
R33
R34
R29
TR8
R14
R13
C29
R12
TR12
TR10
R23
C18
C28
R40
L4
C22
C20
C21
R26
C19
TR9
TR4
C24
C12
TR15
94V0
V1130B5200
R39
C26

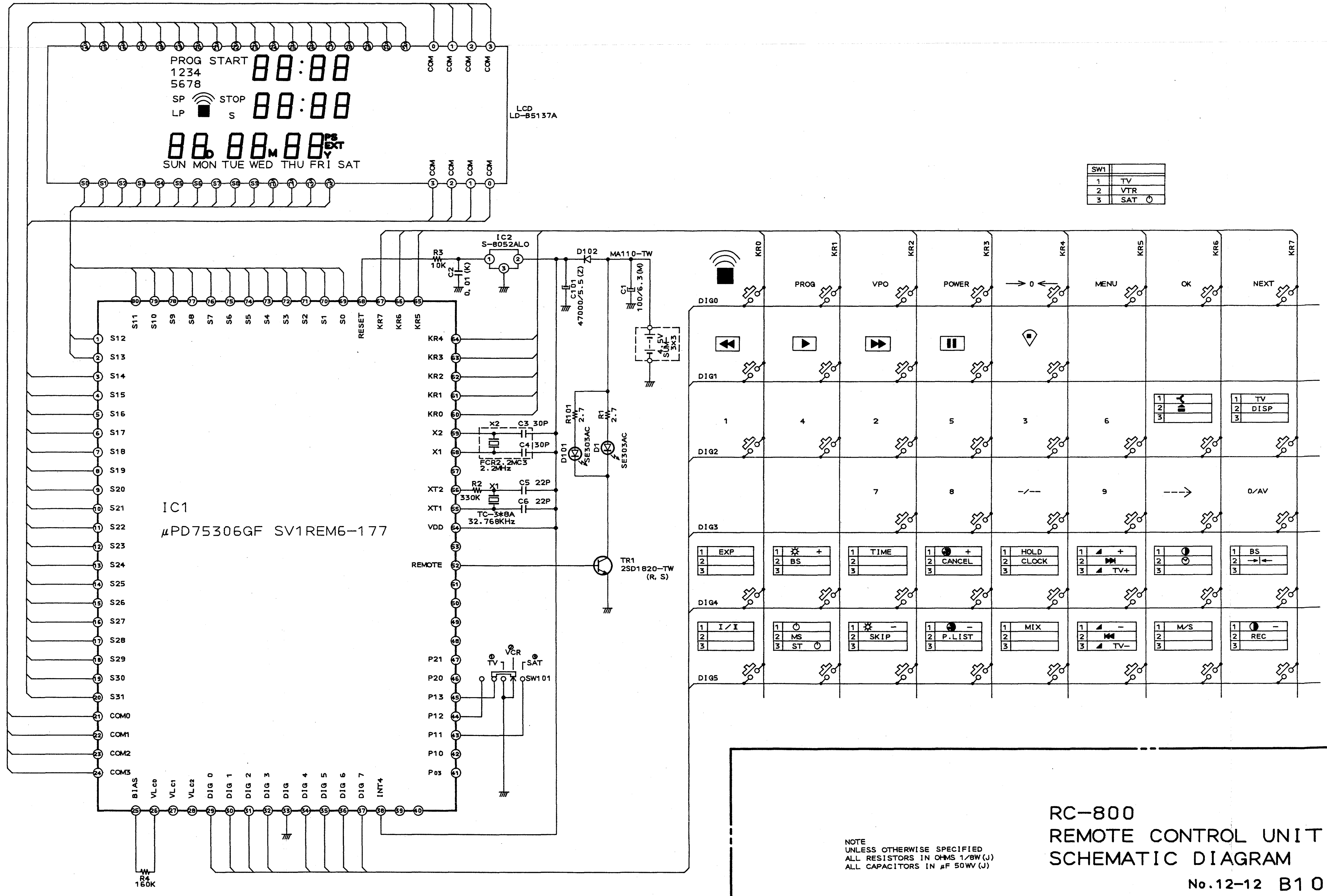
ASO PCB V1130B5200


LED
3
2
1
PROG
6
5
4
VPS
9
8
7
0/AV
OK
NEXT
MENU
POWER
MS
VCR
BS
SKIP
REC
CANCEL
P.LIST
DISP
2.H
CLOCK
P03 B1016B5020
94V0

REMOTE CONTROL PCB
B1016B5020J3
(SWITCH VIEW)


TR1
D1
D101
R101
R1
R4
24
20
15
10
5
25
30
35
40
IC1
80
75
70
65
41
45
50
55
60
64
R2
X1
X2
C6
C5
C4
C3
SW101
VCR
SAT
R3
C2
D102
C101
IC2
3
2
1
C1
P03 B1016B5020
94V0

REMOTE CONTROL PCB
B1016B5020J3
(PARTS LOCATION)


PROG START
1234
5678
SP
LP
STOP
S
SUN MON TUE WED THU FRI SAT
PS
EXT
Y
COM
LCD
LD-B5137A
SW1
1 TV
2 VTR
3 SAT
IC2
S-8052ALO
R3
10K
C2
0.01 (K)
D102
MA110-TW
C101
47000/5.5 (Z)
C1
100/6.3(M)
4.5V
SUM-3×3
R101
2.7
R1
2.7
D101
SE303AC
D1
SE303AC
X2
C3 30P
C4 30P
FCR2.2MC3
2.2MHz
R2
330K
X1
C5 22P
C6 22P
TC-38A
32.768KHz
IC1
µPD75306GF SV1REM6-177
TR1
2SD1820-TW
(R, S)
REMOTE
RESET
KR0
KR1
KR2
KR3
KR4
KR5
KR6
KR7
X1
X2
XT1
XT2
VDD
P21
P20
P13
P12
P11
P10
P03
S0
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
S16
S17
S18
S19
S20
S21
S22
S23
S24
S25
S26
S27
S28
S29
S30
S31
COM0
COM1
COM2
COM3
BIAS
VLC0
VLC1
VLC2
DIG 0
DIG 1
DIG 2
DIG 3
DIG 4
DIG 5
DIG 6
DIG 7
INT4
TV
VCR
SAT
SW101
R4
160K
DIG0
DIG1
DIG2
DIG3
DIG4
DIG5
PROG
VPO
POWER
→ 0 ←
MENU
OK
NEXT
1
4
2
5
3
6
TV
DISP
7
8
-/--
9
---→
0/AV
EXP
BS
TIME
CANCEL
HOLD
CLOCK
TV+
I/II
MS
ST
SKIP
P.LIST
MIX
TV-
M/S
REC

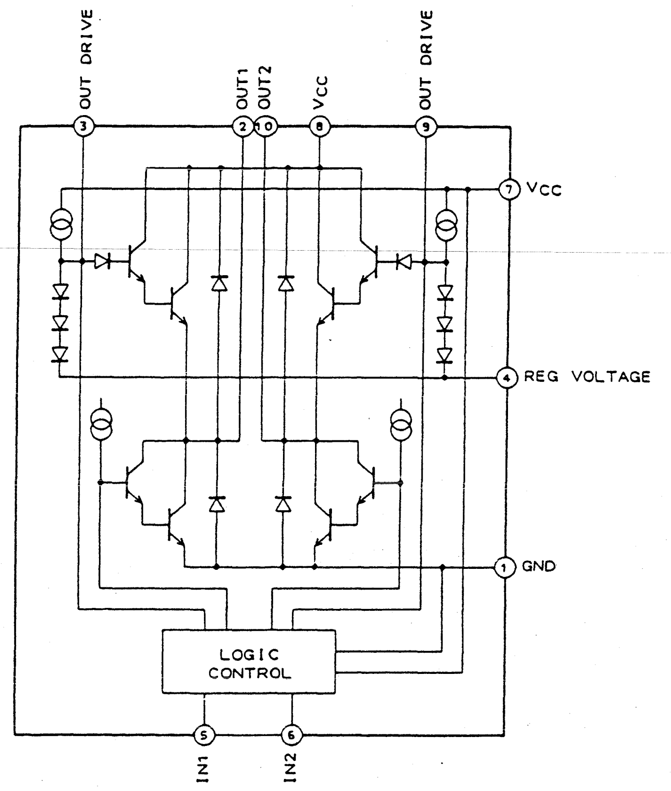
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/8W (J)
ALL CAPACITORS IN µF 50WV (J)

RC-800
REMOTE CONTROL UNIT
SCHEMATIC DIAGRAM

No.12-12 B101608M
A2

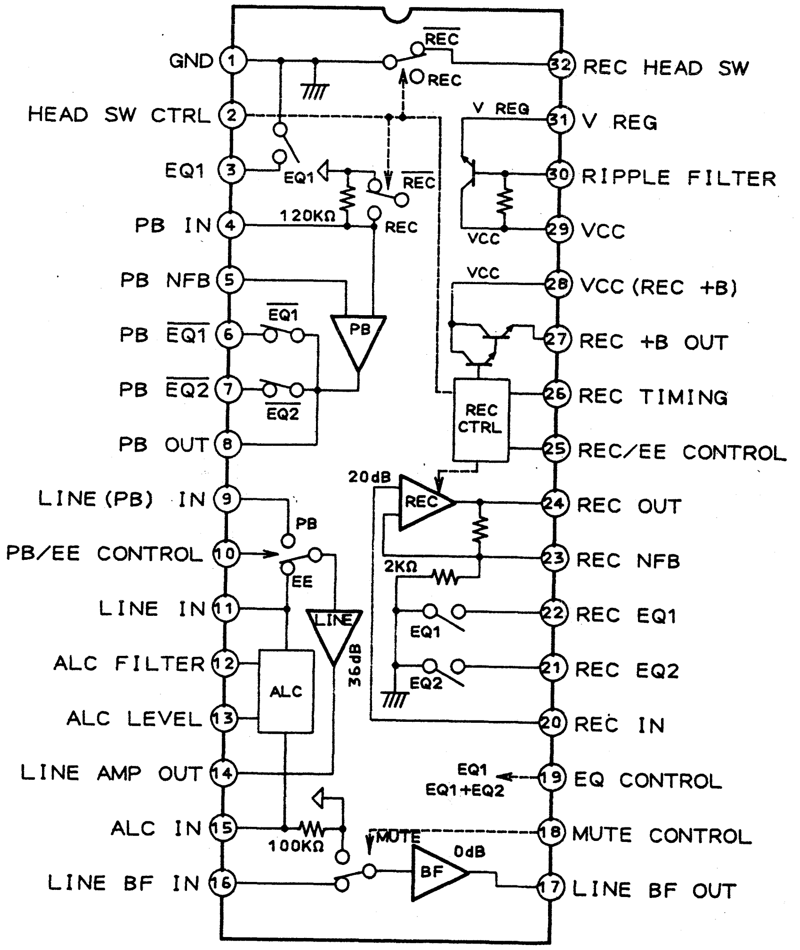
REMO-CON PCB B1016B5020J3

BA6229 (BI-DIRECTIONAL MOTOR DRIVE)

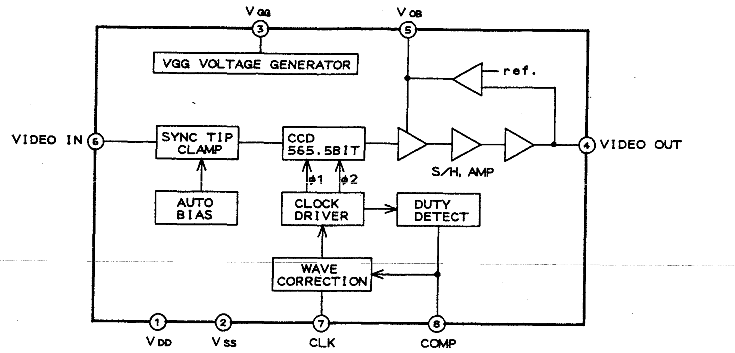

OUT DRIVE
OUT1
OUT2
VCC
OUT DRIVE
③
②
⑩
⑧
⑨
⑦ VCC
④ REG VOLTAGE
① GND
LOGIC CONTROL
⑤
⑥
IN1
IN2

INPUT		OUTPUT		MODE
⑤	⑥	②	⑩	
H	H	L	L	BRAKE
L	H	L	H	CASSETTE & TAPE LOADING
H	L	H	L	CASSETTE & TAPE UNLOADING
L	L	OPEN	OPEN	STOP

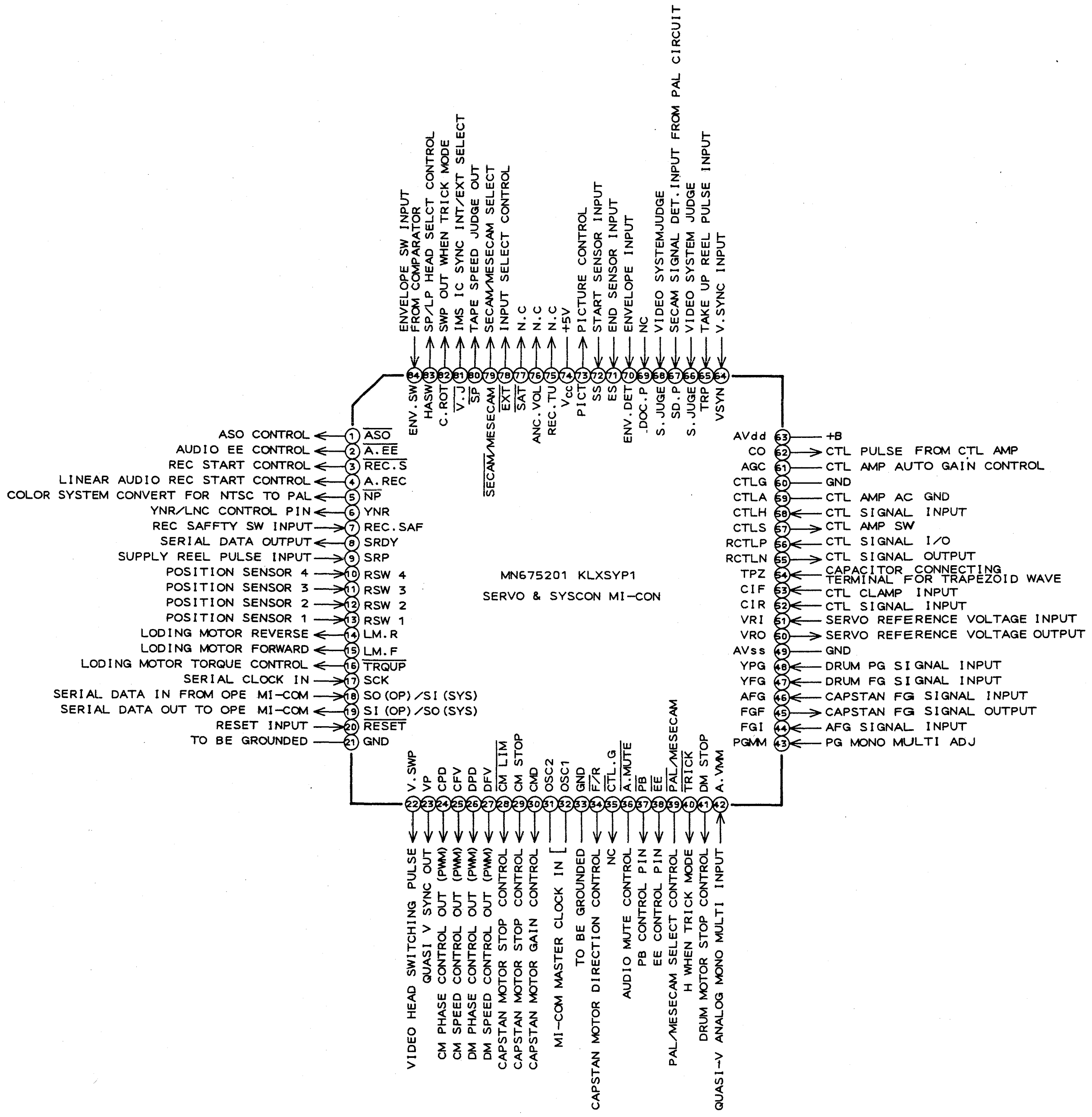
BA7765AS (AUDIO SIGNAL REC/PB AMPLIFIER)


GND ①
HEAD SW CTRL ②
EQ1 ③
PB IN ④
PB NFB ⑤
PB EQ1 ⑥
PB EQ2 ⑦
PB OUT ⑧
LINE (PB) IN ⑨
PB/EE CONTROL ⑩
LINE IN ⑪
ALC FILTER ⑫
ALC LEVEL ⑬
LINE AMP OUT ⑭
ALC IN ⑮
LINE BF IN ⑯
㉜ REC HEAD SW
㉛ V REG
㉚ RIPPLE FILTER
㉙ VCC
㉘ VCC (REC +B)
㉗ REC +B OUT
㉖ REC TIMING
㉕ REC/EE CONTROL
㉔ REC OUT
㉓ REC NFB
㉒ REC EQ1
㉑ REC EQ2
⑳ REC IN
⑲ EQ CONTROL
⑱ MUTE CONTROL
⑰ LINE BF OUT
REC
REC
EQ1
REC
120KΩ
REC
V REG
VCC
VCC
PB
EQ1
EQ2
REC CTRL
20dB
REC
2KΩ
EQ1
EQ2
PB
EE
LINE
36dB
ALC
EQ1
EQ1+EQ2
100KΩ
MUTE
0dB
BF

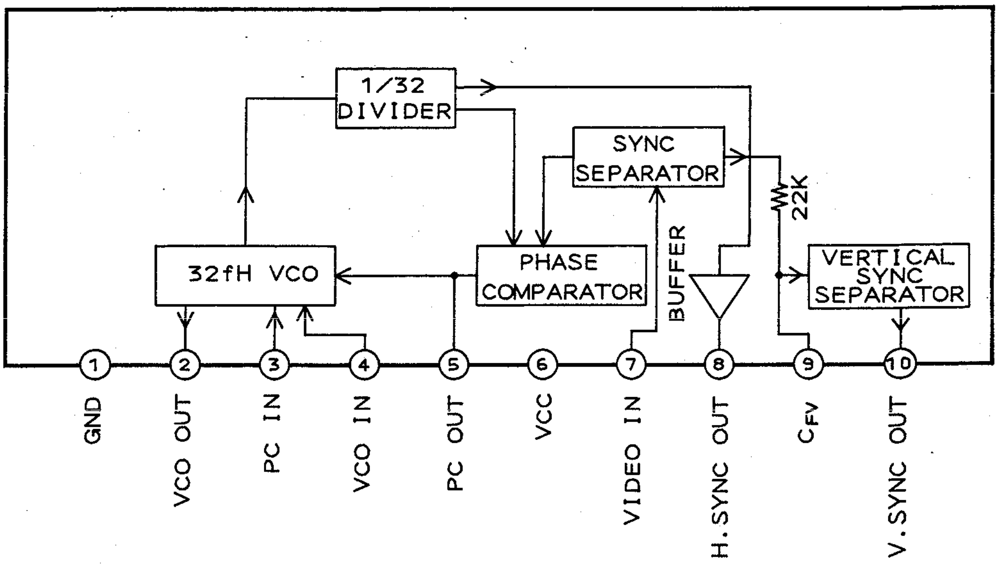
LC8992 (CCD 1H DELAY LINE)


VGG
VOB
③
⑤
VGG VOLTAGE GENERATOR
ref.
VIDEO IN ⑥
SYNC TIP CLAMP
CCD 565.5BIT
φ1
φ2
S/H, AMP
④ VIDEO OUT
AUTO BIAS
CLOCK DRIVER
DUTY DETECT
WAVE CORRECTION
① VDD
② VSS
⑦ CLK
⑧ COMP

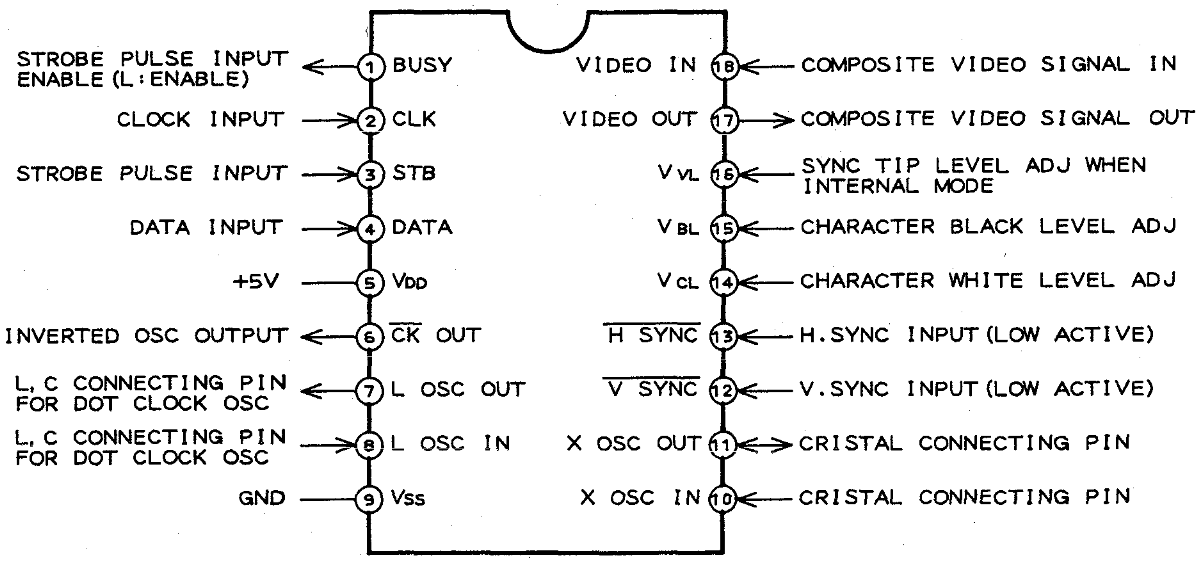
MN675201 KLXSYP1 (SERVO/SYSCON MI-COM)


MN675201 KLXSYP1
SERVO & SYSCON MI-CON
ASO CONTROL ← ① ASO
AUDIO EE CONTROL ← ② A.EE
REC START CONTROL ← ③ REC.S
LINEAR AUDIO REC START CONTROL ← ④ A.REC
COLOR SYSTEM CONVERT FOR NTSC TO PAL ← ⑤ NP
YNR/LNC CONTROL PIN ← ⑥ YNR
REC SAFFTY SW INPUT → ⑦ REC.SAF
SERIAL DATA OUTPUT ← ⑧ SRDY
SUPPLY REEL PULSE INPUT → ⑨ SRP
POSITION SENSOR 4 → ⑩ RSW 4
POSITION SENSOR 3 → ⑪ RSW 3
POSITION SENSOR 2 → ⑫ RSW 2
POSITION SENSOR 1 → ⑬ RSW 1
LODING MOTOR REVERSE ← ⑭ LM.R
LODING MOTOR FORWARD ← ⑮ LM.F
LODING MOTOR TORQUE CONTROL ← ⑯ TRQUP
SERIAL CLOCK IN → ⑰ SCK
SERIAL DATA IN FROM OPE MI-COM → ⑱ SO (OP) /SI (SYS)
SERIAL DATA OUT TO OPE MI-COM ← ⑲ SI (OP) /SO (SYS)
RESET INPUT → ⑳ RESET
TO BE GROUNDED — ㉑ GND
㉒ V.SWP → VIDEO HEAD SWITCHING PULSE
㉓ VP → QUASI V SYNC OUT
㉔ CPD → CM PHASE CONTROL OUT (PWM)
㉕ CFV → CM SPEED CONTROL OUT (PWM)
㉖ DPD → DM PHASE CONTROL OUT (PWM)
㉗ DFV → DM SPEED CONTROL OUT (PWM)
㉘ CM LIM → CAPSTAN MOTOR STOP CONTROL
㉙ CM STOP → CAPSTAN MOTOR STOP CONTROL
㉚ CMD → CAPSTAN MOTOR GAIN CONTROL
㉛ OSC2
㉜ OSC1
MI-COM MASTER CLOCK IN
㉝ GND — TO BE GROUNDED
㉞ F/R → CAPSTAN MOTOR DIRECTION CONTROL
㉟ CTL.G → NC
㊱ A.MUTE — AUDIO MUTE CONTROL
㊲ PB → PB CONTROL PIN
㊳ EE → EE CONTROL PIN
㊴ PAL/MESECAM — PAL/MESECAM SELECT CONTROL
㊵ TRICK → H WHEN TRICK MODE
㊶ DM STOP → DRUM MOTOR STOP CONTROL
㊷ A.VMM ← QUASI-V ANALOG MONO MULTI INPUT
PGMM (43) ← PG MONO MULTI ADJ
FGI (44) ← AFG SIGNAL INPUT
FGF (45) → CAPSTAN FG SIGNAL OUTPUT
AFG (46) ← CAPSTAN FG SIGNAL INPUT
YFG (47) ← DRUM FG SIGNAL INPUT
YPG (48) ← DRUM PG SIGNAL INPUT
AVss (49) — GND
VRO ㊿ → SERVO REFERENCE VOLTAGE OUTPUT
VRI (51) ← SERVO REFERENCE VOLTAGE INPUT
CIR (52) ← CTL SIGNAL INPUT
CIF (53) ← CTL CLAMP INPUT
TPZ (54) ← CAPACITOR CONNECTING TERMINAL FOR TRAPEZOID WAVE
RCTLN (55) → CTL SIGNAL OUTPUT
RCTLP (56) ← CTL SIGNAL I/O
CTLS (57) → CTL AMP SW
CTLH (58) ← CTL SIGNAL INPUT
CTLA (59) — CTL AMP AC GND
CTLG (60) — GND
AGC (61) — CTL AMP AUTO GAIN CONTROL
CO (62) → CTL PULSE FROM CTL AMP
AVdd (63) — +B
(64) VSYN ← V.SYNC INPUT
(65) TRP ← TAKE UP REEL PULSE INPUT
(66) S.JUGE ← VIDEO SYSTEM JUDGE
(67) SD.P ← SECAM SIGNAL DET.INPUT FROM PAL CIRCUIT
(68) S.JUGE ← VIDEO SYSTEMJUDGE
(69) DOC.P ← NC
(70) ENV.DET ← ENVELOPE INPUT
(71) ES ← END SENSOR INPUT
(72) SS ← START SENSOR INPUT
(73) PICT → PICTURE CONTROL
(74) Vcc — +5V
(75) REC.TU → N.C
(76) ANC.VOL → N.C
(77) SAT → N.C
(78) EXT → INPUT SELECT CONTROL
(79) SECAM/MESECAM → SECAM/MESECAM SELECT
(80) SP → TAPE SPEED JUDGE OUT
(81) V.J → IMS IC SYNC INT/EXT SELECT
(82) C.ROT → SWP OUT WHEN TRICK MODE
(83) HASW → SP/LP HEAD SELCT CONTROL
(84) ENV.SW ← ENVELOPE SW INPUT FROM COMPARATOR

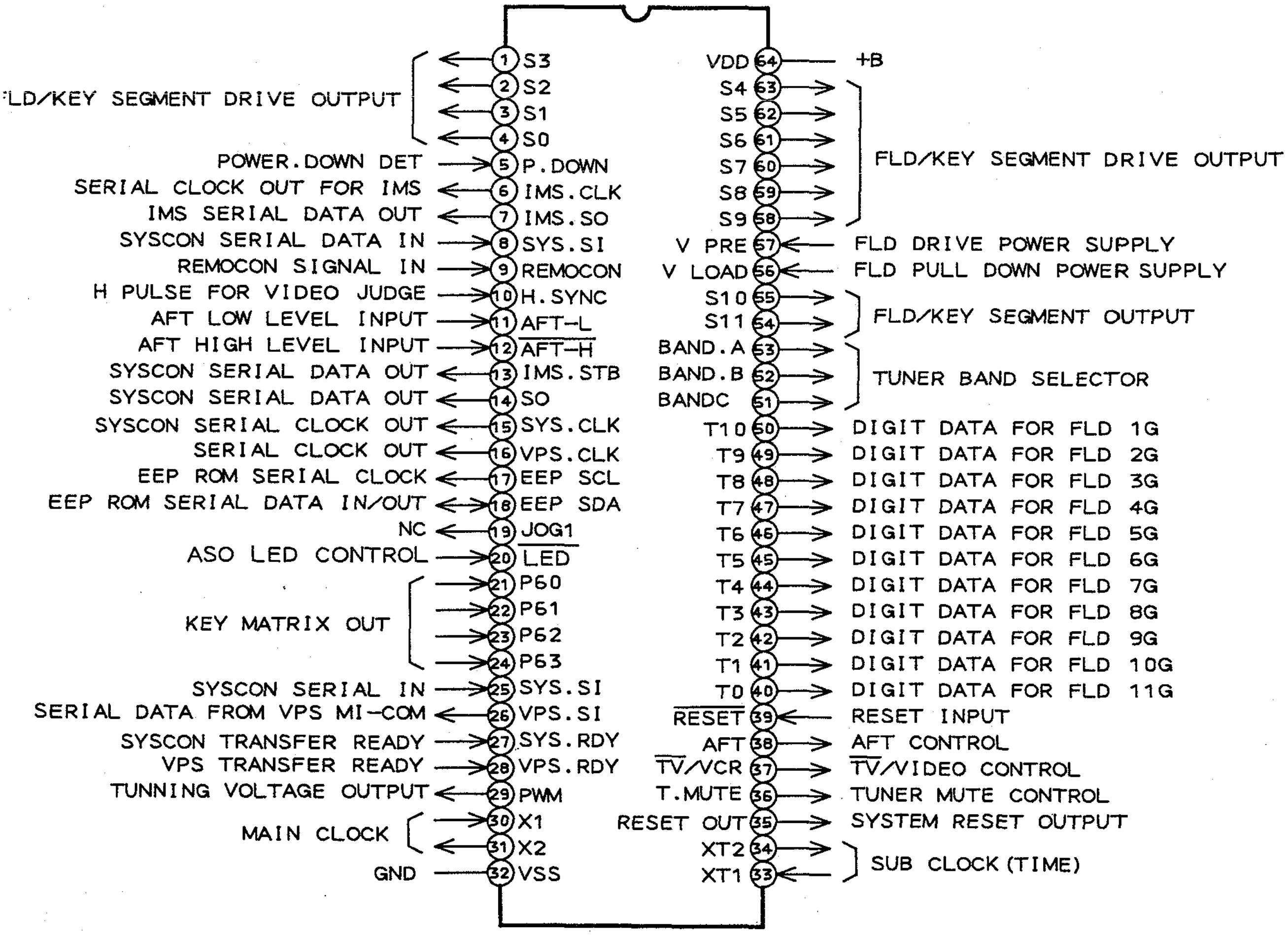
MM1068XS (SYNC SEPARATOR)


1/32
DIVIDER
SYNC
SEPARATOR
22K
32fH VCO
PHASE
COMPARATOR
BUFFER
VERTICAL
SYNC
SEPARATOR
1
2
3
4
5
6
7
8
9
10
GND
VCO OUT
PC IN
VCO IN
PC OUT
VCC
VIDEO IN
H.SYNC OUT
C_{FV}
V.SYNC OUT

µPD6450 (CHARACTER GENERATOR)


STROBE PULSE INPUT ENABLE (L: ENABLE)
① BUSY
CLOCK INPUT
② CLK
STROBE PULSE INPUT
③ STB
DATA INPUT
④ DATA
+5V
⑤ VDD
INVERTED OSC OUTPUT
⑥ CK OUT
L, C CONNECTING PIN FOR DOT CLOCK OSC
⑦ L OSC OUT
L, C CONNECTING PIN FOR DOT CLOCK OSC
⑧ L OSC IN
GND
⑨ Vss
VIDEO IN ⑱
COMPOSITE VIDEO SIGNAL IN
VIDEO OUT ⑰
COMPOSITE VIDEO SIGNAL OUT
VVL ⑯
SYNC TIP LEVEL ADJ WHEN INTERNAL MODE
VBL ⑮
CHARACTER BLACK LEVEL ADJ
VCL ⑭
CHARACTER WHITE LEVEL ADJ
H SYNC ⑬
H.SYNC INPUT (LOW ACTIVE)
V SYNC ⑫
V.SYNC INPUT (LOW ACTIVE)
X OSC OUT ⑪
CRISTAL CONNECTING PIN
X OSC IN ⑩
CRISTAL CONNECTING PIN

µPD75216 (OPERATION MI-COM)


LD/KEY SEGMENT DRIVE OUTPUT
① S3
② S2
③ S1
④ S0
POWER.DOWN DET
⑤ P.DOWN
SERIAL CLOCK OUT FOR IMS
⑥ IMS.CLK
IMS SERIAL DATA OUT
⑦ IMS.SO
SYSCON SERIAL DATA IN
⑧ SYS.SI
REMOCON SIGNAL IN
⑨ REMOCON
H PULSE FOR VIDEO JUDGE
⑩ H.SYNC
AFT LOW LEVEL INPUT
⑪ AFT-L
AFT HIGH LEVEL INPUT
⑫ AFT-H
SYSCON SERIAL DATA OUT
⑬ IMS.STB
SYSCON SERIAL DATA OUT
⑭ SO
SYSCON SERIAL CLOCK OUT
⑮ SYS.CLK
SERIAL CLOCK OUT
⑯ VPS.CLK
EEP ROM SERIAL CLOCK
⑰ EEP SCL
EEP ROM SERIAL DATA IN/OUT
⑱ EEP SDA
NC
⑲ JOG1
ASO LED CONTROL
⑳ LED
KEY MATRIX OUT
㉑ P60
㉒ P61
㉓ P62
㉔ P63
SYSCON SERIAL IN
㉕ SYS.SI
SERIAL DATA FROM VPS MI-COM
㉖ VPS.SI
SYSCON TRANSFER READY
㉗ SYS.RDY
VPS TRANSFER READY
㉘ VPS.RDY
TUNNING VOLTAGE OUTPUT
㉙ PWM
MAIN CLOCK
㉚ X1
㉛ X2
GND
㉜ VSS
VDD (64)
+B
S4 (63)
S5 (62)
S6 (61)
S7 (60)
S8 (59)
S9 (58)
FLD/KEY SEGMENT DRIVE OUTPUT
V PRE (57)
FLD DRIVE POWER SUPPLY
V LOAD (56)
FLD PULL DOWN POWER SUPPLY
S10 (55)
S11 (54)
FLD/KEY SEGMENT OUTPUT
BAND.A (53)
BAND.B (52)
BANDC (51)
TUNER BAND SELECTOR
T10 ㊿
DIGIT DATA FOR FLD 1G
T9 ㊾
DIGIT DATA FOR FLD 2G
T8 ㊽
DIGIT DATA FOR FLD 3G
T7 ㊼
DIGIT DATA FOR FLD 4G
T6 ㊻
DIGIT DATA FOR FLD 5G
T5 ㊺
DIGIT DATA FOR FLD 6G
T4 ㊹
DIGIT DATA FOR FLD 7G
T3 ㊸
DIGIT DATA FOR FLD 8G
T2 ㊷
DIGIT DATA FOR FLD 9G
T1 ㊶
DIGIT DATA FOR FLD 10G
T0 ㊵
DIGIT DATA FOR FLD 11G
RESET ㊴
RESET INPUT
AFT ㊳
AFT CONTROL
TV/VCR ㊲
TV/VIDEO CONTROL
T.MUTE ㊱
TUNER MUTE CONTROL
RESET OUT ㉟
SYSTEM RESET OUTPUT
XT2 ㉞
XT1 ㉝
SUB CLOCK (TIME)

ABBREVIATIONS (VIDEO)

ABBREVIATION	EXPLANATION
A	Audio or Analogue
AC	Alternating Current
ACC	Automatic Color Control
A/C	Audio and Control
ADJ	ADJust (ment)
AFC	Automatic Frequency Control
AFT	Automatic Fine Tuning
AGC	Automatic Gain Control
AH	Audio Head
AL	ALways (voltage)
ALC	Automatic Level Control
A-SW.P	Audio SWitching Pulse
A-MUTE	Audio MUTE
ANT	ANTenna
APC	Automatic Phase Control
ASSY	ASSemblY
BAL	BALance
B DOWN	Break DOWN
BGP	Burst Gate Pulse
BLK	BLocK or BLacK
BPF	Band Pass Filter
BU	Back Up (voltage)
B/W	Black and White
C	Chroma or Color
CCD	Charge Coupled Device
CCIR	Comité Consultatif International des Radio communications
CH (ch)	CHannel (channel)
CLK	CLocK
CM	Capstan Motor
CN	CoNnector
COMP	COMParator
CSW	Cassette SWitch
CSYNC	Composite SYNC
CTL	ConTrol
CUE	CUE
DAC	Digital to Analog Converter
DC	Direct Current
DEMOD	DEMODulator
DET	DETetct (DETector)
DL	Delay Line
DM	Drum Motor
DOC	Drop Out Compensator
D.P.E	Drum Phase Error
D.PG	Drum Pulse Generator
EE	Electronic to Electronic
EF	Emitter Follower
EMPHA	EMPHAsis
ENV	ENVelope
EP	Extended Play
EP ROM	Erasable Programmable ROM
EQ	EQualizer
FE	Full track Erase
FF	Flip-Flop or Fast Foward
FG	Frequency Generator
Fig	Figure
FLD	FLuorescent Display
FM	Frequency Modulation
Fo	resonance Frequency
FREQ	FREQuency
GND	GrouND
H	Horizontal
HP	Horizontal (sync) pulse
HPF	High Pass Filter
HQ	High Quality System
IC	Integrated Circuit
ID	IDentification
IDL	IDLe (Voltage)
IMS	Interactive Monitor System
INS	INSert
INV	INVerter
L	Left
LED	Light Emitting Diode
LIM	LIMitter
LM	Loading Motor
LM STP	Loading Motor STop
LP	Long Play
LPF	Low Pass Filter
ME-SECAM	Middle East SECAM
MI-COM	MIcro COMputer
MM	Mono-stayble Multi
MOD	MODulator
MRS	Motor ReverSe
NG	Noise Gate
NICAM	Near Instanteneous Compand Audio Multiplex
NON-LIN	NON-LINear
N.T.S.C.	National Television System Committee
OSC	OSCillator
PAL	Phase Alternation by Line
PB	Play Back
PCB (P.C.B)	Printed Circuit Board
P-COM	Phase-COMparator
P DOWN	Power DOWN
PG	Pulse Generator
P.I.P	Picture In Picture
PL, PLG	PLunger (PLunGer)
PRG (PGM)	PRoGram (ProGraM)
PU	Pick UP (head, pulse)
PWR	PoWeR
Q	Quality factor
R	Right
RAM	Random Access Memory
REC	RECord
REF	REFerence
REF-V	REFerence Vertical signal
REG	REGulator
REV (REVW)	REView (REVieW)
REW	REWind
RF	Radio Frequency
ROM	Read Only Memory
R.S SW	Record-Safety SWitch
RST (RES)	ReSet (RESet)
RVS	ReVerSe
S	Sensor, Shield
SAW	Surface Acoustic Wave
SC	SimulCast
S CLK	Serial CLocK
SECAM	SÉquentiel Couleur À Mémoire
S & H	Sample and Hold
SLP	Super Long Play
SP	Standard Play
SPD	SPeeD
SRP	Supply Reel Pulse
SRV	SeRVo
SOW	Sync On Word
STBY	STandBY
S.VHS	Super VHS
SW	SWitch
SW'NG	SWitchiNG
SWP	SWitching Pulse
SYNC	SYNChronize
T-AUDIO	Tuner AUDIO
TPZ (TRAPE)	TraPeZoid (TRAPEzoid)
TRK	TRacKing
TRP	Take up Reel Pulse
T/U	Take Up
TV	TeleVision
UHF	Ultra High Frequency
UNR	UNRegulated (voltage)
V	Vertical or Video
VASS	Video Address Search System
VCO	Voltage Controlled Oscillator
VH	Video Head
VHF	Very High Frequency
VHS	Video Home System
VIF	Video Intermediate Frequency
VISS	Video Index Search System
VJ	Video Judge
VM	Voltage for Memory
VOB	Video On Blank
VOW	Video On Word
VP	Vertical (sync) Pulse
VPS	Video Program System
VPT	Video Programming by video Text
VT	Voltage for Tuning
WHT	WHiTe
Y	Luminance
2H	2 Hour (SP)
4H	4 Hour (LP)
6H	6 Hour (SLP/EP)